

SOUTHEASTERN BIOLOGY



Volume 54

April, 2007

Number 2

B ASB 68TH ANNUAL MEETING ASB APRIL 18-21, 2007

B The University of South Carolina ASB
Columbia, South Carolina

ASB ASB, the 70th year
Still sharing knowledge and friendships dear.

ASB See Page 72 and Consult Website
<http://www.asb.appstate.edu/> ASB



Implosion of the old Carolina Radisson Inn, the hotel headquarters
for the 1986 Annual Meeting of ASB hosted by the
University of South Carolina, Columbia.

ASB ASB

The Official Publication of
The Association of Southeastern Biologists
<http://www.asb.appstate.edu/>

SOUTHEASTERN BIOLOGY (ISSN 1533-8436)

SOUTHEASTERN BIOLOGY (ISSN 1533-8436) is published quarterly in January, April, July, and October by the Association of Southeastern Biologists, Inc., Carolina Biological Supply Co., 2700 York Road, Burlington, NC 27215. Periodicals postage paid at Burlington, NC, and additional mailing offices. POSTMASTER: please send address changes to the SOUTHEASTERN BIOLOGY business manager, Tim Atkinson, Carolina Biological Supply Co., 2700 York Road, Burlington, NC 27215. ASB members receive the SOUTHEASTERN BIOLOGY as part of their membership dues. For non-members, the cost is \$10.00 per issue.

All contributions, inquiries about missing numbers and other matters should be addressed to the Print Editor. News items should be sent to the News Editor. Send books to be reviewed to the Book Review Editor. Printed by Allen Press, 810 East 10th Street, Lawrence, KS 66044.

Print Editor..... James D. Caponetti, Division of Biology, University of Tennessee, Knoxville, TN 37996-0830; (865) 974-6841; FAX (865) 974-4057; jcaponet@utk.edu.
Associate Editor Debbie Moore, Department of Natural Sciences, Troy University, P.O. Box 8368, Dothan, AL 36304-8368; (334) 983-6556, ext. 250; FAX (334) 983-6322; dsmoore@troy.edu.
Web Editor..... Dwayne A. Wise, Dept. of Biological Sciences, P. O. Drawer GY, Mississippi State University, Mississippi State, MS 39762; (662) 325-7579; FAX (662) 325-7939; daw1@ra.msstate.edu.
Business Manager..... Tim Atkinson, Carolina Biological Supply Co., 2700 York Road, Burlington, NC 27215; (336) 538-6224; tim.atkinson@carolina.com.
News Editor Ricky Fiorillo, Department of Biology, University of Louisiana at Monroe, Monroe, LA 71209; (318) 342-1797; FAX (318) 342-3312; fiorillo@ulm.edu.
Book Review Editor.... Debbie Moore, Department of Natural Sciences, Troy University, P.O. Box 8368, Dothan, AL 36304-8368; (334) 983-6556, ext. 250; FAX (334) 983-6322; dsmoore@troy.edu.
Meetings Coordinator . Scott Jewell, P.O. Box 1088, Mebane, NC 27302; Office (336) 421-0034; FAX (336) 421-3425; Cell (336) 213-7373; a2zconvention@yahoo.com.

ASB OFFICERS

President Kim Marie Tolson, Dept. of Biology, University of Louisiana, Monroe, LA 71209-0520; (318) 342-1805; FAX (318) 342-3312; tolson@ulm.edu.
President-elect W. Michael Dennis, Breedlove, Dennis and Associates, Inc., 330 W. Canton Ave., Winter Park, FL 32789; (407) 677-1882; FAX (407) 657-7008; (800) 304-1882; mike@bda-inc.com.
Vice-President Bonnie Kelley, Dept. of Biology, University of North Carolina, Pembroke, NC 28372-1510; (910) 521-6419; kelley@uncp.edu.
Past President..... Dwayne A. Wise, Dept. of Biological Sciences, P. O. Drawer GY, Mississippi State University, Mississippi State, MS 39762; (662) 325-7579; FAX (662) 325-7939; daw1@ra.msstate.edu.
Secretary Debbie Moore, Department of Natural Sciences, Troy University, P.O. Box 8368, Dothan, AL 36304-8368; (334) 983-6556, ext. 250; FAX (334) 983-6322; dsmoore@troy.edu.
Treasurer Tim Atkinson, Carolina Biological Supply Co., 2700 York Road, Burlington, NC 27215; (336) 538-6224; tim.atkinson@carolina.com.
Membership Officer.... Deborah Atkinson, Office of Continuing Education, School of Public Health, University of North Carolina, CB#8165, 400 Roberson Street, Chapel Hill, NC 27599-8165; (919) 843-6892; FAX (919) 966-5692; datkinso@email.unc.edu.
Archivist..... John Herr, Dept. of Biological Sciences, University of South Carolina, Columbia, SC 29208; (803) 777-8110; FAX (803) 777-4002; herr@biol.sc.edu.

Executive Committee Members-at-Large

2007: Elaine J. Davis, Dept. of Natural Sciences, Bowie State University, 14000 Jericho Park Rd., Bowie, MD 20715; (301) 860-3876; edavis@bowiestate.edu.
Scott Franklin, Dept. of Biology, University of Memphis, Ellington Hall, 3700 Walker Ave., Memphis, TN 38152; (901) 678-5539; FAX (901) 678-4746; sfrankli@memphis.edu.
2008: Jennifer J. Davis, Dept. of Biology, Shorter College, Rome, GA 30161; (706) 233-7292; jdavis@shorter.edu.
Dennis C. Haney, Dept. of Biology, Furman University, Greenville, SC 29613-0418; (864) 294-2050; FAX (864) 294-2058; dennis.haney@furman.edu.
2009: Donald H. Roush, Department of Biology, University of North Alabama, P. O. Box 5181, Florence, AL 35632; (256) 765-4435; FAX (256) 765-4430; ahrouse@una.edu.
Robert Wayne Van Devender, Department of Biology, Appalachian State University, 572 Rivers Street, Boone, NC 28608; (828) 262-6907; (828) 262-2127; vandevenderr@appstate.edu.

PURPOSE

The purpose of this association shall be to promote the advancement of biology as a science by encouraging research, the imparting of knowledge, the application of knowledge to the solution of biological problems, and the preservation of biological resources. The ASB has representation in Section G Committee of the AAAS. Varying types of membership are available to individuals and institutions. See inside back cover.

TIME AND PLACE OF FUTURE MEETINGS

2007 April 18-21: Hosted by the University of South Carolina, Columbia, South Carolina.
2008 April 16-19: Co-hosted by Furman University, Greenville, South Carolina, and Wofford College, Spartanburg, South Carolina.

THE VIEW FROM HERE

A MESSAGE FROM THE PRESIDENT KIM MARIE TOLSON

I send greetings to all of my colleagues throughout the southeast and beyond. ASB now has members in 40 states and 13 other countries. I trust that you are all making plans to attend the 68th Annual Meeting in Columbia, SC. Dr. John Herr and the Local Arrangements Committee have worked diligently to put together a top-notch, professional meeting that I know we will all enjoy. At last count there were abstracts submitted for 330 oral presentations and 133 posters. ASB is certainly an organization that is on-the-go and on-the-grow.

We are an organization of professionals and it is important that we present ourselves as such. The two primary avenues we have for show-casing our organization to other professionals are our print publication, *Southeastern Biology*, and our website, www.asb.appstate.edu. At the September Executive Committee meeting, an ad hoc committee was appointed and charged with making recommendations for improving "The Official Publication of The Association of Southeastern Biologists". Some journal changes were approved at that meeting and they are outlined in the January 2007 issue of *Southeastern Biology*. Dr. Dwayne Wise, with the assistance of a professional web designer, has launched the new ASB website. Using the old website as a template, Dwayne and Adam Jones have generated a website that is a positive reflection of the quality of our membership. Everyone who has contributed to the website has played a part in its success. I urge everyone to utilize this valuable resource and to continue supporting it by submitting information, comments and photographs.

Many people have worked hard this past year for the benefit of ASB. The list is extensive and I cannot begin to call them all by name. But, I would like to extend my deepest gratitude to all members of the Executive Committee. It has been an honor and a privilege to work with you and I know that I have certainly grown from the experience. To those of you who have chaired committees or served as the member of a committee, you have worked behind the scenes to make this organization run smoothly and professionally. For that, I thank you. I cannot forget the membership, for you are the organization. Your value cannot be measured.

In conclusion, I would like to invite everyone to stop by the ASB booth in Columbia—we will be located in the Convention Center Exhibit Hall along with the exhibitors and posters. Dr. Ricky Fiorillo, News Editor for *Southeastern Biology*, has plans to provide a "News Box" for you to drop off your "news of biology in the southeast". Dr. Debbie Moore, Book Review Editor, will have a collection of books that she has received and will need folks to provide reviews for publication in *Southeastern Biology*. Tim Atkinson, ASB Treasurer, will be present to collect dues and donations to the Enrichment Fund. I and other members of the Executive Committee will be staffing the booth to provide assistance when and where needed. I wish everyone safe travels and good science. I look forward to seeing you in Columbia. ☽



ASB CANDIDATES FOR OFFICE—2007

The Nominating Committee composed of Claudia Jolls (Chair), Michael Dennis, and Diane Nelson has selected the following slate of nominees for the ASB offices to be filled in 2007. Voting will take place at the annual business meeting at 10:30 A.M. on Friday, April 20, 2007. Additional nominations will be accepted from the floor before voting is conducted. Please plan to attend and vote. Elections can sometimes be close. Therefore, your vote could make a difference on who gets elected to office.

<i>President-Elect</i>	Scott B. Franklin	University of Memphis Memphis, Tennessee
	Thomas R. Wentworth	North Carolina State University Raleigh, North Carolina
<i>Vice-President</i>	Rebecca Cook	Lambuth University Jackson, Tennessee
	Patricia B. Cox	Tennessee Valley Authority Knoxville, Tennessee
<i>Executive Committee</i>	Ronald V. Dimock	Wake Forest University Winston-Salem, North Carolina
	Cathryn H. Greenberg	USDA Forest Service Asheville, North Carolina
	Douglas A. Rayner	Wofford College Spartanburg, South Carolina
	Randall L. Small	University of Tennessee Knoxville, Tennessee



Scott B. Franklin



Thomas R. Wentworth



Rebecca A. Cook



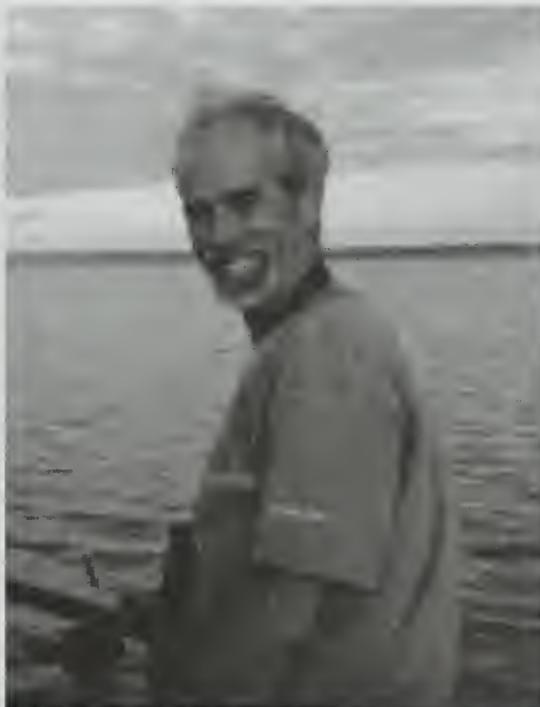
Patricia B. Cox



Ronald V. Dimock



Cathryn H. Greenberg



Douglas A. Rayner



Randall L. Small

PRESIDENT-ELECT

Scott B. Franklin – Dr. Franklin is a plant community ecologist with a M.S. in forestry and a Ph.D. in plant biology (Southern Illinois University, 1996). Scott has been studying disturbance for over 16 years, with considerable interest in spatial and temporal vegetation dynamics. He is an applied ecologist, integrating management questions into his research with exotic species, fire, forested floodplains, hydrology of the Mississippi River, and slash and burn agriculture. Most recently, Scott has developed research examining the potential to restore canebrakes (*Arundinaria gigantea*) in the southeastern United States and the regeneration of bamboo (*Fargesia* and *Bashania*) in the Qinling Mountains of China following disturbance. Scott is an active member of the Ecological Society of America, where he has served as vice-chair of the Southeastern Chapter and currently serves as chair of the Vegetation Section, and of the Association of Southeastern Biologists, where he served on the Student Awards Committee and as Local Arrangements co-chair, as well as an Executive Committee Member-at-Large for the last three years. He is also a member of the Natural Areas Association and International Association of Vegetation Scientists. Scott has co-authored one book, six book chapters, and 23 journal articles. Scott is currently an Associate Professor in the Department of Biology, University of Memphis.

Thomas R. Wentworth – Dr. Wentworth is Alumni Distinguished Undergraduate Professor of Plant Biology at North Carolina State University. Tom graduated from Dartmouth College in 1970 with a bachelor's degree in biological sciences. He received his Ph.D. in plant ecology from Cornell University in 1976, when he joined the Department of Botany (now Plant Biology) at NC State University. His research focuses on plant community ecology, with special interest in the description and classification of vegetation and the environmental interpretation of community patterns. Much of his recent research has focused on the vegetation of the Carolinas. Tom has served on the Board of Directors of the Organization for Tropical Studies (1978-1988), and both the Board of Scientific

Advisors (1979-present) and the Board of Directors (1987-present; chair 2001-present) of the Highlands Biological Station. He is a member of the Ecological Society of America, the Botanical Society of America, The Torrey Botanical Society, the Southern Appalachian Botanical Society, the British Ecological Society, the International Association for Vegetation Science (IAVS), and the honor societies of Phi Beta Kappa, Phi Kappa Phi, and Sigma Xi. He was Business Manager of the North American Section of IAVS from 1991-1995. Tom has been a member of ASB since 1976 and has attended most of its annual meetings since that time. He has served on many of ASB's committees (Audit Committee [1988-1991], Senior Research Award Committee [1998-2001], Meritorious Teaching Award Committee [2001-2004], Publications Committee [2002-2005], Executive Committee [2002-2005]). He was awarded ASB's Meritorious Teaching Award in 2001 and served as ASB Vice President in 2005-2006.

VICE-PRESIDENT

Rebecca A. Cook – Dr. Cook is Chair of the Biology Department and Coordinator of the Environmental Science Program at Lambuth University in Jackson, TN. She holds a B.S. in Biology from Hendrix College, a M.S. in Environmental Science from Rice University, and a Ph.D. in Botany from the University of Tennessee, Knoxville. In her current position she teaches introductory biology for both majors and nonmajors as well as courses in botany, microbiology, and environmental science. She held faculty positions at the University of Tennessee, Georgetown College, and Monmouth College before joining the faculty at Lambuth in 1997. Her research interests are in the population biology of herbaceous plants with particular interest in rare and endangered species. She is currently involved in a demography study of *Delphinium exaltatum* at Oak Ridge National Laboratory. She has been a member of ASB since 1991 and has served as Executive Committee Member-at Large, and as chair of the Patrons and Exhibitors and the Meritorious Teaching Award Committees. She is a member of SABS and the southeastern chapter of the American Botanical Society as well as other professional organizations.

Patricia B. Cox – Dr. Cox, the Senior Botanist for the Tennessee Valley Authority Heritage program, received her B.S. and M.S. in Biology from Northeast Louisiana University, Monroe, LA, and Ph.D. in Botany from Louisiana State University, Baton Rouge, LA. Her area of expertise is plant taxonomy, systematics and plant anatomy. She has 30+ years experience as a field botanist with 13 years spent in academics at the University of Tennessee where she taught introductory biology, field botany and field pteridology. Dr. Cox has served the Association of Southeastern Biologist as executive committee member-at-large, Co-meeting Chair for ASB 2006, the meritorious teaching award committee, and place of meeting committee. She is active in several other professional societies such as the Southern Appalachian Botanical Society where she serves as Membership secretary and Representative to the GSMNP Spring Wildflower pilgrimage; she also has been chairman of the Bartholomew Award committee, past editor of the journal *Castanea* and executive committee member. She is also active in Discover Life in America (Board of directors; executive committee-secretary); American Fern Society; and secretary for the Great Smoky Mountains Spring Wildflower Pilgrimage committee.

Currently, Pat is working on an All Taxa Biodiversity Inventory (ATBI) project in the Great Smoky Mountains National Park. This Project involves using the trails as transects to map the fern species in the park. Over the past 5 summers, with the help of volunteers, over 200 miles of 50+ trails have been mapped for ferns.

EXECUTIVE COMMITTEE

Ronald V. Dimock, Jr. — Dr. Dimock is the Thurman D. Kitchin Professor of Biology at Wake Forest University and a former chair of the department. He received the BA at the University of New Hampshire, the MS at Florida State University and the PhD at the University of California at Santa Barbara. He is past president of the Wake Forest chapter of Sigma Xi, the NC Academy of Sciences and the American Microscopical Society. He is currently in his 3rd term as Treasurer of the Society for Integrative and Comparative Biology. He has been a member of ASB since 1971, serving as chair of the Graduate Student Travel Award committee in 1983 and the Meritorious Teaching Award committee in 1999. His research interests are in the areas of invertebrate physiological ecology and behavior. He has published extensively on the symbiosis between unionicolid water mites and their freshwater mussel hosts, as well as on the biology of freshwater mussels, whose life history includes an obligate parasitic phase on an appropriate fish host. He has both a species and subgenus of unionicolid mites named in his honor. Among his graduate student alumni are 11 college and university professors including one at the University of Sao Paolo, Brazil, and one that currently is a program director at the NSF. In the fall semester 2007, Dr. Dimock will direct for the second time Wake Forest's study abroad program in London, England.

Cathryn H. Greenberg — Dr. Greenberg is a research ecologist with the Southern Research Station of the U.S. Forest Service, at the Bent Creek Experimental Forest in Asheville, North Carolina. She received a B.A. in philosophy from the George Washington University (1982), an M.S. in wildlife ecology from the University of Tennessee, and a Ph.D. in wildlife ecology from the University of Florida (1993). Her research interests focus on how natural or silvicultural disturbances affect wildlife, their habitat, and their food resources. Some of her (and partners) current studies in the southern Appalachians include fleshy fruit and hard mast production in recently harvested and mature southern Appalachian forest, and effects of fire and other fuel reduction treatments on wildlife. She (in partnership with University of Florida) also continues a long-term study of amphibian and reptile use of ephemeral ponds in regularly burned and hardwood-invaded longleaf pine-wiregrass ecosystem in Florida. She serves on the editorial board of *Forest Ecology and Management*, and as an Associate Editor for the *Journal of Wildlife Management*. She has served as member and Chair on the ASB Conservation Committee (2000-2003) and Student Awards Committee (2003-2006).

Douglas A. Rayner — Dr. Rayner is a Professor of Biology at Wofford College. Before coming to Wofford in 1989, he served as Botanist and Inventory Coordinator for the Heritage Trust Program of the S.C. Department of Natural Resources. He received his B.S. in Zoology from the University of New Hampshire in 1971 and his Master's (1974) and Ph.D. (1977) degrees from the

University of South Carolina. Although Wofford College emphasizes quality teaching, Dr. Rayner has been able to maintain an active research program. He has long-term projects established on 1) the effects of browse by white-tailed deer on wildflower vigor and abundance, 2) impacts of invasive plant species on diversity of vascular plants and soil microarthropods, and 3) population biology and ecology of white iresette, *Sisyrinchium dichotomum*. He is co-author, with Dr. Richard Porcher, of "A Guide to the Wildflowers of South Carolina." He served the South Carolina Chapter of The Nature Conservancy as a scientific advisor from its inception in 1978 until 1998 when he was elected to the Board of Trustees of the Chapter; he is now serving his second six-year term as Trustee. He is a popular speaker for local civic organizations and regional and statewide conservation organizations.

Dr. Rayner has been an active member of ASB since 1973. He has served on the Conservation Committee (twice), Priority in Public Affairs Committee, Patrons Committee, Publications Committee, Executive Committee (Member-at-Large), and most recently as Vice-President (2001-2002). He led botany field trips at the previous ASB meeting held at USC in Columbia and at the most recent ASB meeting at Furman University. Family health issues have precluded his active participation over the past several years, but he is now able to resume active participation. He presently is Co-Chair of the Local Arrangements Committee (with Dr. Joe Pollard) for the 2008 ASB meeting, which will be hosted jointly by Furman University and Wofford College and sited at the Marriott Hotel in Spartanburg, SC.

Randy L. Small – Dr. Small is an Associate Professor and Associate Department Head in the Department of Ecology and Evolutionary Biology at the University of Tennessee, Knoxville. He received a B.S. in Biology from East Tennessee State University (1991), a M.S. in Botany from Miami University (1994), and a Ph.D. in Genetics from Iowa State University (1999). While an undergraduate, Randy had the fortune to come under the influence of a botanist at ETSU who helped him realize his love of field botany and plant evolution, and who encouraged him to attend graduate school. Randy was also a member of $\beta\beta\beta$ at ETSU. A faculty member at the University of Tennessee since 1999, Randy teaches an undergraduate course in Genetics, and graduate courses in Plant Taxonomy, Molecular Systematics and Molecular Evolution. His research focus is primarily in the field of plant systematics, especially of the plant family Malvaceae that includes many familiar plants such as cotton, okra, and *Hibiscus*. In 2004 Randy received the Raymond Holton Faculty Teaching Award from the Botany Department, and the Chancellor's Award for Professional Promise in Research and Creative Achievement from the University of Tennessee. Randy joined ASB in 2000 immediately following his appointment at the University of Tennessee, attended his first ASB meeting in Chattanooga, TN, in 2000, and hasn't missed one since. Randy was co-chair (with Dr. Pat Cox) of the Local Arrangements Committee for the ASB 2006 meeting held in Gatlinburg, TN. Randy is also a member of the Southern Appalachian Botanical Society, American Society of Plant Taxonomists, and Botanical Society of America, where he serves as Chair of the Genetics Section. Randy has also served as a volunteer trip leader for the Annual Spring Wildflower Pilgrimage in the Great Smoky Mountains since 2000. \diamond

The University of South Carolina, Columbia

is proud to host the



68^h Annual Meeting of the 2007 Association of Southeastern Biologists April 18 – 21, 2007, Columbia, SC Columbia Metropolitan Convention Center

*ASB, the 70th Year,
Still sharing knowledge and friendships dear*

This four-day event brings together approximately 800 biologists from across the southeastern United States. The meeting features a distinguished plenary speaker, special symposia, field trips, oral and poster presentations, workshops, networking and social events, and more.

The Annual Meeting provides you with the exclusive opportunity to showcase your products and/or services to this large and important audience of faculty, students, researchers, conservation workers, military and government personnel, and business professionals with a common interest in biological issues. Interests are diverse, and range from genetics and molecular biology, to physiology and population biology, to community and ecosystem ecology and systematics.

About ASB: The Association of Southeastern Biologists (ASB) was established in 1937 by biologists concerned with the quality of biological research in the southeastern United States. Today, ASB is the largest regional biology association in the country, and is committed to the advancement of biology as a science by the promotion of science education, research, and the application of scientific knowledge to human problems.

ASB Web Site: Many thanks to Dr Terry Richardson, University of North Alabama, for serving many years as the ASB Web Editor and ASB Secretary. Many thanks to Dr Dwayne Wise, Mississippi State University for launching ASB's new web site. Visit our new and exciting web site: www.asb.appstate.edu.

Outside front cover photo: Implosion of the old Carolina Radisson Inn, the hotel headquarters for the 1986 annual meeting of the Association of Southeastern Biologists. Destruction of this building was a significant part of the "Innovista" project, a plan to construct a research campus where corporate and academic efforts will merge to solve major problems facing the state and the nation.

Many new features have been added, register online for our Annual Meeting, view photos, inquire about career opportunities and more.

The University of South Carolina, Columbia

The University of South Carolina will host the 68th annual meeting of the ASB in celebration of the association's 70th year. ASB did not hold an annual meeting in two successive years during World War II. Most events of the meeting will take place in the new Columbia Metropolitan Convention Center located in the *Vista* section of the city close to a variety of fine restaurants, fast-food establishments, coffee houses, pubs, and specialty shops. The traditional Thursday evening social occasion, which evolved from the "Smoker Social" of the early years when smoking was cool, will be held in the patio/pool area of the Strom Thurmond Wellness Center and will feature award-winning barbecue accompanied by traditional side dishes and beverages.

Chartered in 1801 as South Carolina College with its first students, all nine of them, arriving in 1805, the University of South Carolina has grown through times of good fortune and tragedy into a large research university of 28,000 students. Undergraduate and graduate programs are offered in the College of Arts and Sciences and also in the professional colleges of Engineering, Business Administration, Education, Nursing, Medicine, and Pharmacy. Regional campuses of the university are located in Aiken, Beaufort, Lancaster, Salkehatchie, Spartanburg, Sumter, and Union.

Columbia, South Carolina

Columbia, the capital and largest city in South Carolina, has a population of 121,395 with an estimated 689,878 in the metropolitan area. The city was named for Christopher Columbus, and the name is a poetic one for "America". Columbia was chosen to be the site of South Carolina's new state capital in 1786, chartered as a town in 1805 and as a city in 1854. It was the second planned city in the United States (Savannah was the first), yet, it did not have a single paved street until Main Street was surfaced in 1908. It was recently one of 30 communities named "America's Most Livable Communities", an award given by the Washington-based non-profit "Partners for Livable Communities" to honor communities that are developing themselves in the creative economy.

The Columbia Metropolitan Convention Center

The Columbia Metropolitan Convention Center is a 142,500 square foot meeting/exhibit facility that has a 17,200 square foot exhibit hall. Inside, visitors will move through expansive concourses and prefunction spaces. Daylight from the glass skylights and exterior walls enhance the rich interior palette drawn from the community's historic and natural environment. The two-story facility is conveniently located in a new upscale shopping/entertainment district known as *The Congaree Vista*. The Vista offers something for everyone in its array of restaurants, bars, and entertainment. From fine dining to more casual fare, the

Vista features both diverse cuisine and a great atmosphere. The whole scene comes alive at night with theatre and live music.

ASB-2007 Schedule

PLEASE NOTE Publication of Abstracts

As reported in the JOURNAL CHANGES announcement on page 45 of the January, 2007, issue of *Southeastern Biology*, the ASB and BBB abstracts of papers and posters presented at the annual meeting will be published in the July, 2007, issue of *Southeastern Biology*.

Please be aware that only the abstracts of papers and posters presented at the annual meeting will be published in the July issue. If a problem arises with the presentation of your paper and/or poster in person at the annual meeting, please notify the Local Arrangements Chair, John Herr, as soon as possible to work out a resolution of your situation. His e-mail address is herr@biol.sc.edu, and his telephone number is (803) 777-8110.

DAY/TIME	EVENT	LOCATION
Wednesday, April 18		
9:00 am-4:00 pm	Exhibitor Move-In	Exhibit Hall
8:00am-8:00 pm	Registration Open	Convention Center
8:00am-8:00 pm	Cyber Café Open	Exhibit Hall
12:00-2:00 pm	Exhibitor Pizza Party (Exhibitors Only)	Exhibit Hall
2:00-6:00 pm	ASB Executive Committee Meeting	Congaree A
2:00-6:00 pm	SABS Council Meeting	Congaree B
3:30-5:30 pm	<u>Exhibitor's Workshop</u> <u>"Classroom Wonders: Wisconsin Fast Plants and C-FERN"</u>	Carolina A & B
7:30-9:00 pm	ASB Plenary Session	Ballroom A
9:00-10:30 pm	Welcome Reception	Exhibit Hall
	Light hors d'oeuvres. Exhibits Open	
9:00 -10:30 pm	Exhibits Open	Exhibit Hall
Thursday, April 19		
7:00 am-4:00 pm	Power Point Preview & Tech. Check	Exhibit Hall
8:00 am-5:00 pm	Exhibits Open	Exhibit Hall
8:00 am-5:00 pm	Registration Open	Convention Center
9 am-12:00 Noon	Guest/Spouse Tours	Columbia
7:00-8:30 am	ASB Past Presidents' Breakfast	Hall of Fame Room
8:30-10:00 am	<u>Exhibitors Workshop</u> <u>"New Trends in Data Acquisition for the Student Physiology Laboratory"</u>	Carolina A & B

8:30-12:00 noon	Symposium I: Ecological Impacts and Coastal Ecosystem Resiliency Following Hurricane Katrina.	Ballroom A
9:00-11:45 am	Plant Biology I	Lexington A
8:45-11:30 am	Plant Ecology I	Lexington B
8:45-11:30 am	Plant Ecology II	Richland A
8:30-11:45 am	Plant Systematics I	Richland B
9:00-11:15 am	Genetics, Cellular and Molecular Biology I	Richland C
8:30-11:45 am	Animal Ecology I	Congaree A & B
10:00-10:30 am	Break: Visit Exhibits & Posters	Exhibit Hall
10:00-12:00 noon	Education Committee Workshop	Ballroom C
10:30-12:00 noon	<u>Exhibitor's Workshop</u>	Carolina A. & B
	<u>"Life in an Extreme Environment. <i>Halobacterium</i> sp.</u>	
	<u>NRC-1: A New Model Organism for the Laboratory"</u>	
8:00-9:00 am	ASB Posters I Setup	Exhibit Hall
10:00-11:00 am	ASB Posters I Presentations	Exhibit Hall
9:00-4:00 pm	Presenters must be present	
12:00 noon-1:30 pm	ASB Posters I on Exhibit	Exhibit Hall
12:00 noon-1:30 pm	Lunch (Individuals & Organizations)	
12:00 noon-1:30 pm	SWS South Atlantic Chapter Luncheon	Ballroom B
12:00 noon-1:30 pm	Committee on Human Diversity	Ballroom C
1:00-5:00 pm	Luncheon and Mentoring Workshop	
1:30-3:00 pm	Tri-Beta Field Trip to Riverbanks Zoo	
	<u>Exhibitor's Workshop</u>	Carolina A & B
	<u>"SQUID INK-UIRY: Inquiry-based Invertebrate Anatomy Through Squid Dissection"</u>	
4:00-5:30 pm	<u>Exhibitor's Workshop</u>	Carolina A & B
	<u>"Inquiry-based Rat Dissection with Carolina's Perfect Solution"</u>	
1:30-4:45 pm	Symposium II: A Symposium in Honor of Albert E. Radford (1918-2006): Contributions to Southeastern Botany, Floristics, Ecology, and Conservation.	Ballroom A
1:30-4:15 pm	Plant Biology II	Lexington A
2:00-4:30 pm	Plant Systematics II	Lexington B
1:30-4:45 pm	Plant Ecology III	Richland A
2:00-4:30 pm	Genetics, Cellular and Molecular Biology II	Richland B
2:00-4:00 pm	Ichthyology	Richland C
1:30-4:30 pm	Teaching Biology	Congaree A & B
3:00-3:30 pm	Break: Visit Exhibits & Posters	Exhibit Hall
4:00-5:00 pm	ASB Posters I Removed	Exhibit Hall
5:30-7:00 pm	On your own in the Vista	
6:00-11:00 pm	Thursday Night Social: The Antepenultimate Party (Shuttle Buses to/from ASB Hotels)	Strom Thurmond Wellness Center

Friday, April 20		
7:00 am-4:00 pm	Power Point Preview and Tech. Check	Exhibit Hall
8:00 am-1:00 pm	Exhibits Open	Exhibit Hall
7:30-8:30 am	Exhibitors & Patrons Breakfast	Ballroom B
8:30-10:00 am	<u>Exhibitors Workshop</u>	Carolina A & B
	<u>"Comparative mammalian Organ Dissection with Carolina's Perfect Solution Specimens"</u>	
1:00-4:00 pm	Exhibitor Move-Out	Exhibit Hall
9:00am-12:00 Noon	Guests Tour	Columbia
7:00-8:30 am	SABS/BSA Breakfast	Ballroom C
8:30-9:30 am	SHC Executive Board Meeting	Ballroom A
9:30-10:30 am	The SHC Meeting	Ballroom A
8:30-9:00 am	βββ Officers Meeting	Hall of Fame
9:00-10:00 am	βββ Judges Meeting	Hall of Fame
10:30-11:30 am	βββ Districts I and II	Lexington A
	Joint Business Meeting	
7:00-8:45 am	βββ Poster Setup	Exhibit Hall
10:00-11:30 am	βββ Poster Presentations	Exhibit Hall
8:45 am-4:00 pm	βββ Posters on Exhibit	Exhibit Hall
7:00-8:30 am	ASB Posters II Setup	Exhibit Hall
10:00-11:00 am	ASB Posters II Presentations	Exhibit Hall
	Presenters must be present	
8:30-4:00 pm	ASB Posters II on Exhibit	Exhibit Hall
8:30-10:00 am	Microbiology I	Lexington A
8:45 am-12:15 pm	Herpetology I	Lexington B
8:30 am-12:30 pm	Plant Ecology IV	Richland A
8:30 am-12:30 pm	Animal Ecology II	Richland B
9:00 am-12:15 pm	Aquatic, Wetland and Marine Management I	Richland C
9:00 am-12:15 pm	Invertebrate Zoology and Entomology	Congaree A & B
10:00-10:30 am	Break: Visit Exhibits & Posters	Exhibit Hall
10:30-11:30 am	ASB Business Meeting	Ballroom A
12:30-2:00 pm	Lunch (Some paper session begin a 1:30 pm)	
12:30-2:00	ESA/SE Luncheon	Ballroom B
1:00-4:30 pm	βββ Paper Sessions	Richland C
		Congaree A
4:30-5:00 pm	βββ District I Business Meeting	Congaree B
4:30-5:00 pm	βββ District II Business Meeting	Congaree A
5:00-5:45 pm	βββ Awards Presentation	Congaree B
2:00-4:50 pm	Symposium III: Status of the Herbarium Cyberinfrastructure in the Southeast	Richland C
		Ballroom A
1:30-4:30 pm	Plant Systematics III	Lexington A
1:30-4:30 pm	Herpetology II	Lexington B
2:00-4:30 pm	Animal Ecology III	Richland A
1:45-3:00 pm	Aquatic, Wetland and Marine Management II	Richland B

3:30-4:30 pm	Invertebrate Zoology and Entomology II	Richland B
1:45-3:00 pm	Microbiology II	Carolina A & B
3:00-3:30 pm	Break: Visit Exhibits	Exhibit Hall
4:00-5:00 pm	ASB Posters II Removed	Exhibit Hall
6:00-7:00 pm	Friday Night Social:	Prefunction Area
7:00-10:00 pm	The Penultimate Party (adjacent to Ballroom B & C) Awards' Banquet: The Ultimate Party Ballroom B & C Presentation and Announcement of Awards	

Saturday, April 21

7:30-11:30 am	ASB Executive Committee	The Inn at USC
8:30 am- 4:30 pm	Breakfast Meeting	
9:00 am- 1:00 pm	Curator's Workshop	Coker Life Science 005

Schedule for Meeting Rooms

Congaree A

Wednesday ASB Executive Committee Meeting

Friday Afternoon βββ Paper Sessions; βββ District I Business Meeting

Congaree B

Wednesday SABS Council Meeting

Friday Afternoon βββ Paper Sessions; βββ District II Business Meeting

Congaree A & B

Thursday Morning Animal Ecology I

Thursday Afternoon Teaching Biology

Friday Morning Invertebrate Zoology and Entomology

Carolina A & B

Wednesday Exhibitor's Workshop

Thursday Morning Two Exhibitor's Workshops

Thursday Afternoon Two Exhibitor's Workshops

Friday Morning Exhibitor's Workshop

Friday Afternoon Microbiology II

Ballroom A

Wednesday Plenary Session

Thursday Morning Symposium I

Thursday Afternoon Symposium II

Friday Morning SHC Executive Board; SHC Meeting; **ASB Business Meeting**

Friday Afternoon Symposium III

Ballroom B

Thursday Afternoon Society of Wetlands Scientists Luncheon

Friday Morning Exhibitors and Patrons Breakfast

Friday Afternoon ESA/SE Luncheon

Ballroom C

Thursday Morning Education Committee Workshop

Thursday Afternoon Committee on Human Diversity Luncheon & Workshop

Friday Morning SABS/BSA Breakfast

Ballroom B & C

Friday Afternoon Awards Banquet: The Ultimate Party

Lexington A

Thursday Morning Plant Biology I

Thursday Afternoon Plant Biology II

Friday Morning Microbiology I; $\beta\beta\beta$ Districts I & II Meeting

Friday Afternoon Plant Systematics III

Lexington B

Thursday Morning Plant Ecology I

Thursday Afternoon Plant Systematics II

Friday Morning Herpetology I

Friday Afternoon Herpetology II

Richland A

Thursday Morning Plant Ecology II

Thursday Afternoon Plant Ecology III

Friday Morning Plant Ecology IV

Friday Afternoon Animal Ecology III

Richland B

Thursday Morning Plant Systematics I

Thursday Afternoon Genetics, Cellular and Molecular Biology II

Friday Morning Animal Ecology II

Friday Afternoon Aquatic, Wetland and Marine management II; Invertebrate Zoology and Entomology II

Richland C

Thursday Morning Genetics, Cellular and Molecular Biology I

Thursday Afternoon Ichthyology

Friday Morning Aquatic, Wetland and Marine Management I

Friday Afternoon $\beta\beta\beta$ Paper Sessions; $\beta\beta\beta$ Awards Presentation

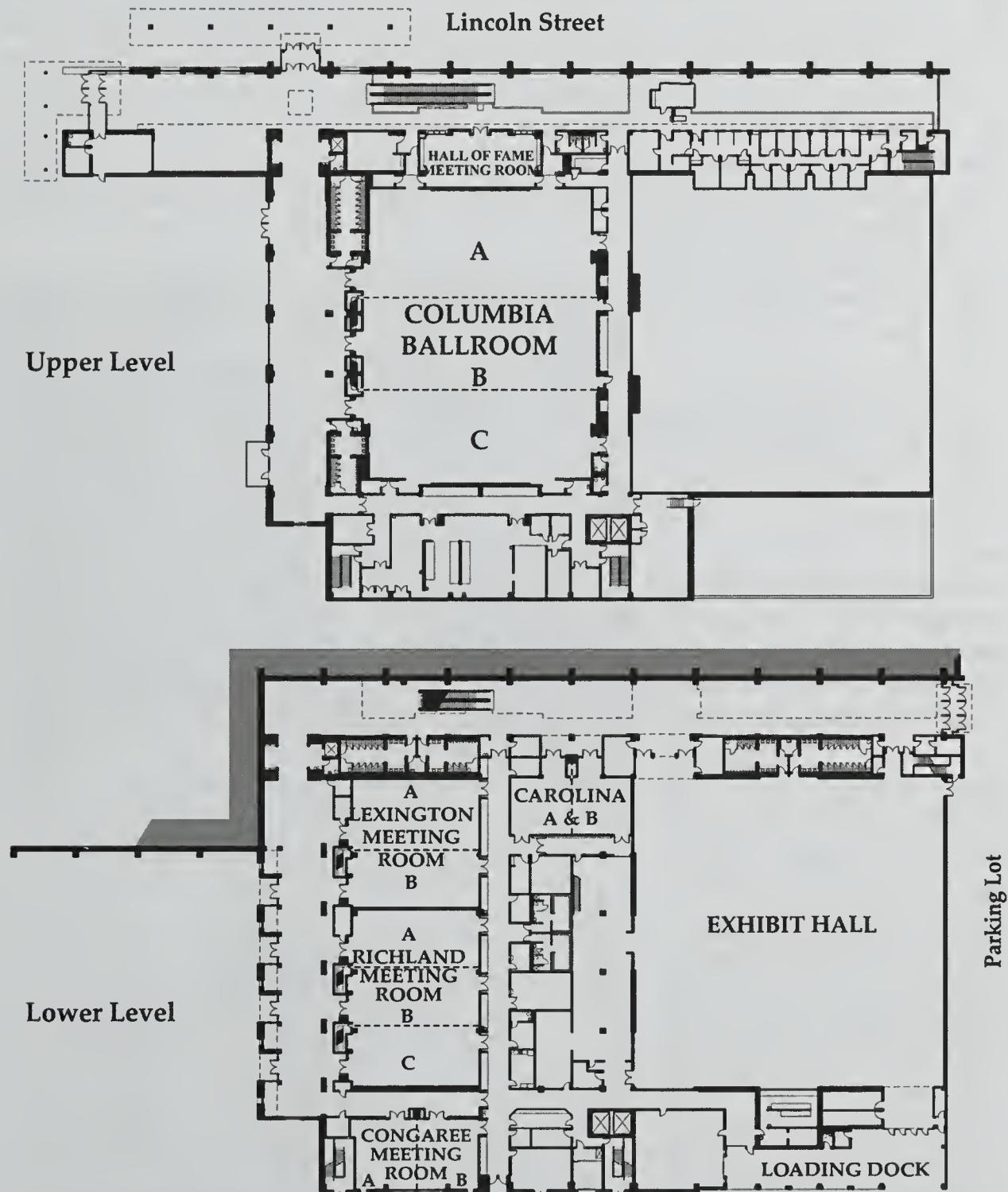
Hall of Fame

Thursday Morning Past Presidents' Breakfast

Friday Morning $\beta\beta\beta$ Officers Meeting; $\beta\beta\beta$ Judges Meeting



COLUMBIA METROPOLITAN
Convention Center



PLENARY SPEAKER

PETER C. H. PRITCHARD

Peter C. H. Pritchard was born in England in 1943, and was raised in Northern Ireland. He relocated to Florida in 1965. He has a B.A. (with Honours) and an M.A. in Chemistry from Oxford University, and a Ph.D. in Zoology from the University of Florida, where he studied sea turtle biology with Dr. Archie Carr. After four years of work with the World Wildlife Fund, he became an officer of the Florida Audubon Society in 1973, where he held various positions including those of Assistant Executive Director, Senior Vice President and Acting President. Since 1998 he has been Director of the Chelonian Research Institute in Oviedo, Florida, and is an Adjunct Professor of Biology at Florida Atlantic University and at the University of Central Florida. Pritchard is married to the former Sibille Hart of Georgetown, Guyana, and they have three sons—Sebastian, Dominic, and Cameron.

He is best known as an authority on the biology and conservation of turtles and tortoises. Both before and after receiving his doctorate in 1969, he has undertaken extensive fieldwork with turtles on all continents and many remote islands, and he has established a permanent field station for turtle conservation in northwestern Guyana. Three species of turtle are named after him—a snake-necked turtle from New Guinea, a pond turtle from northern Burma and a giant fossil side neck turtles from Colombia. He has been recognized as a “Champion of the Wild” by the Discovery Television Channel and as a “Hero of the Planet” by TIME Magazine. In 2001, he was declared “Floridian of the Year” by the Orlando Sentinel newspaper.



He has written a number of books. These include: *Living Turtles of the World* (1967); *Marine Turtles of Micronesia* (1977); *Encyclopedia of Turtles* (1979); *Turtles of Venezuela* (1984); *The Alligator Snapping Turtle* (1990; reprinted 2006); *Saving What's Left* (1994); *Galapagos Tortoises: Nomenclatural and Survival Status* (1996); *The Pinta Tortoise: Globalization and the Extinction of Island Species* (2005); and *Tales from the Thé baïde* (in press). His first children's book, *Cleopatra the Turtle Girl*, will be published by the Guyana Book Foundation in early 2007.⁶³

Travel to Columbia

Columbia is one of eleven cities in the United States through which pass three interstate highway, viz., I-77, I-20, and I-26. I-77 North connects with I-40 and I-81. I-20 West connects with I-85 in Atlanta. I-20 East connects with I-95 in Florence. I-26 West connects with I-385 to Greenville and continues to I-40 in Asheville. I-26 East connect with I-95 and continues to Charleston.

From Charlotte (Points North):

Take I-77 South to Columbia to Exit 18 onto SC 277. Follow Hwy 277 into the city where it becomes Bull Street and dead ends at Pendleton Street. Turn right on Pendleton, travel 6 blocks to Lincoln Street, turn left and then right in to the Convention Center parking lot.

From Nashville/Knoxville (Points West):

Take I-40 East to I-26 East in Asheville. Follow I-26 East to Columbia where two left lanes enters the city as I-126. Stay in the right two lanes where I-126 becomes Elmwood Ave. Turn right on Assembly Street and travel 10 blocks (count on right side) to Pendleton Street. Turn right on Pendleton; go 2 blocks to Lincoln Street; turn left and then right into the Convention Center parking lot.

From Atlanta (Points West):

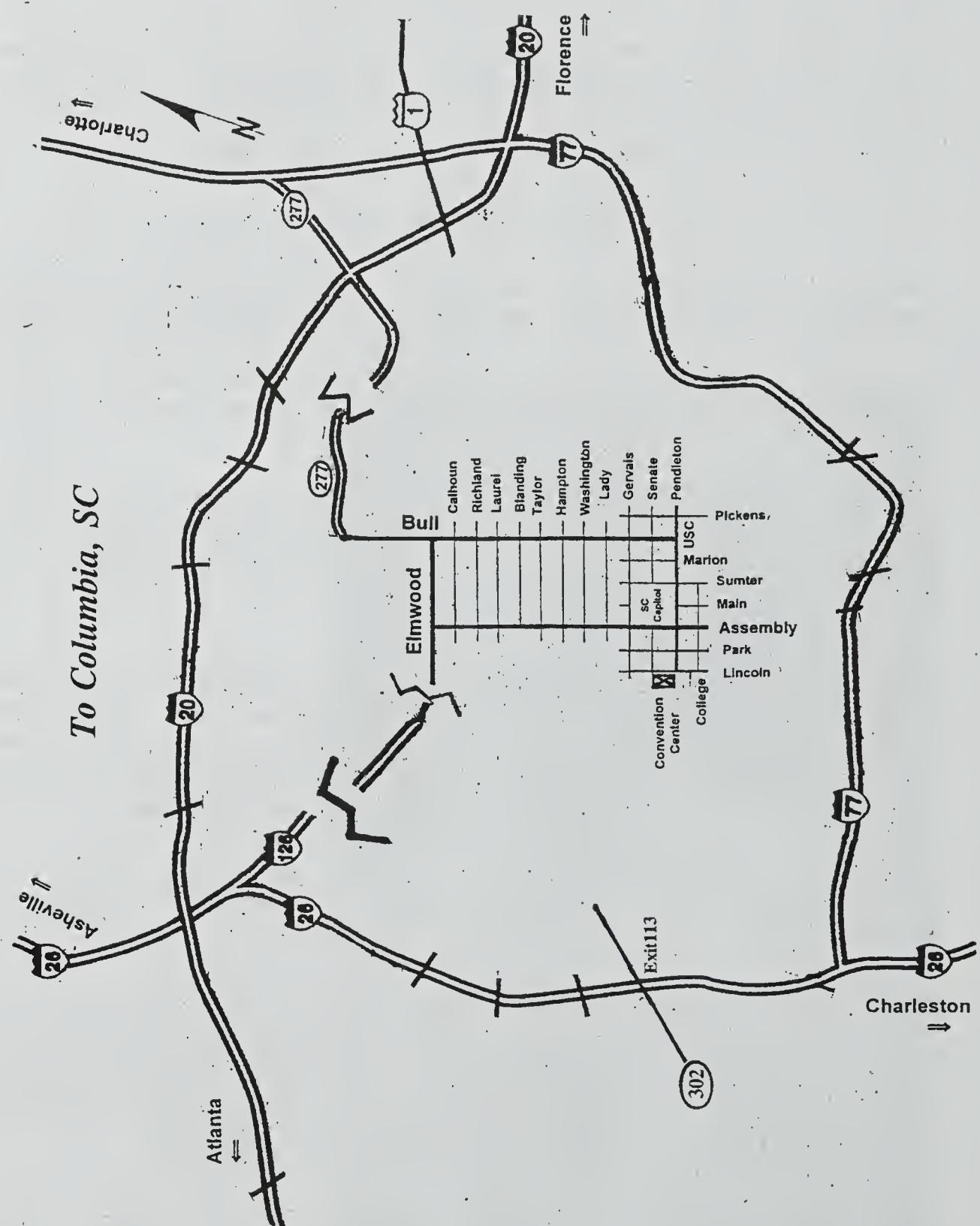
Take I-20 East to Columbia to Exit 64, I-26 East to enter the city (See "From Nashville/Knoxville" above).

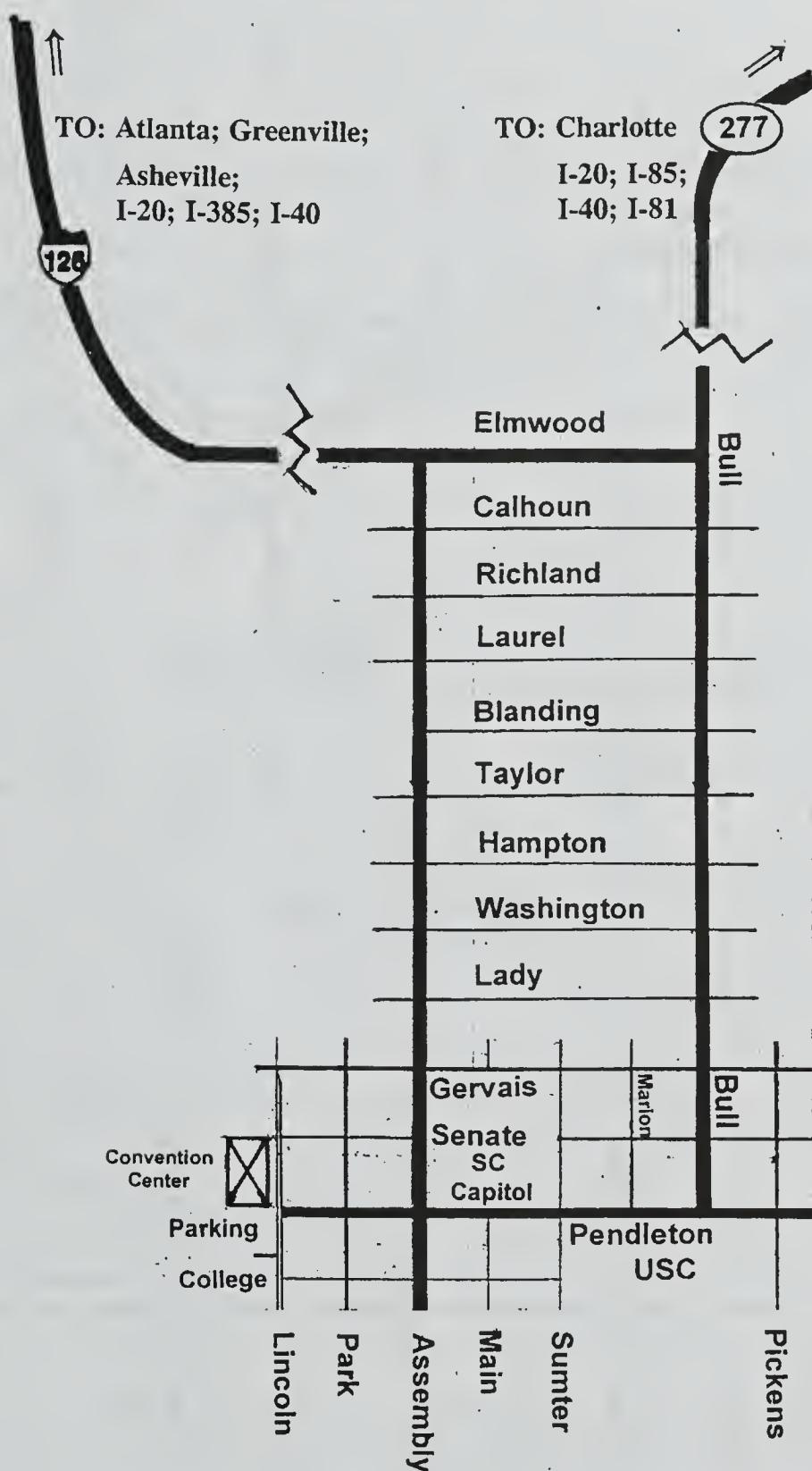
From Charleston or I-95 (Points South):

Take I-26 West to Exit 108, I-126 East to enter the city. (Follow "From Nashville/Knoxville" above). Alternative: From I-26 West, take Exit 113, Route 302 (Edmund Road) toward city; left on Route 321 and soon right on Knox Abbott Drive which across the river is Blossom Street. Turn left on Lincoln Street, pass College Street, and turn left into the Convention Center parking lot.

From Florence or I-95 (Points North):

Take I-20 West to Exit 73 onto SC 277. Follow 277 into the city (Follow "From Charlotte" above).

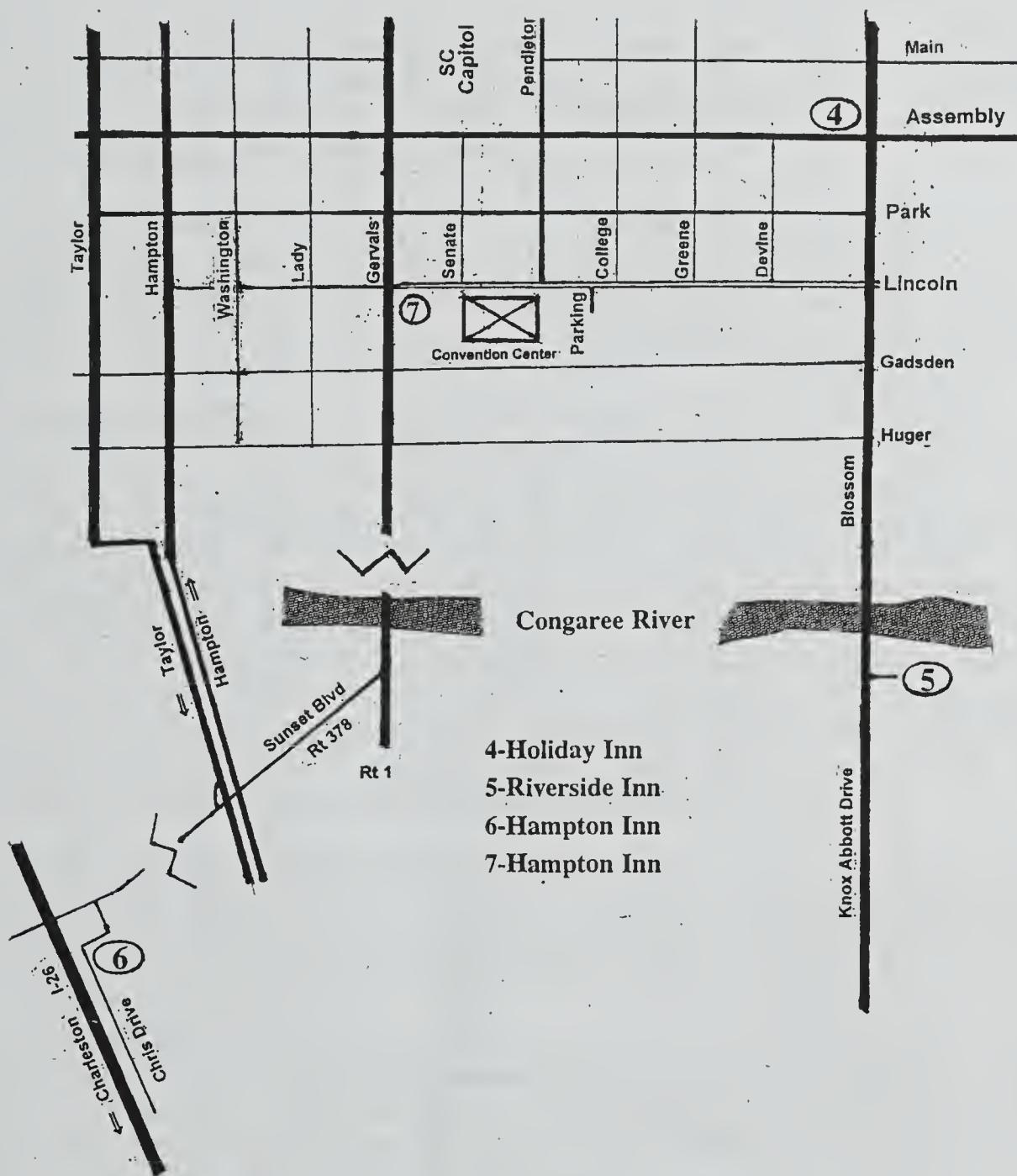


To Columbia Convention Center

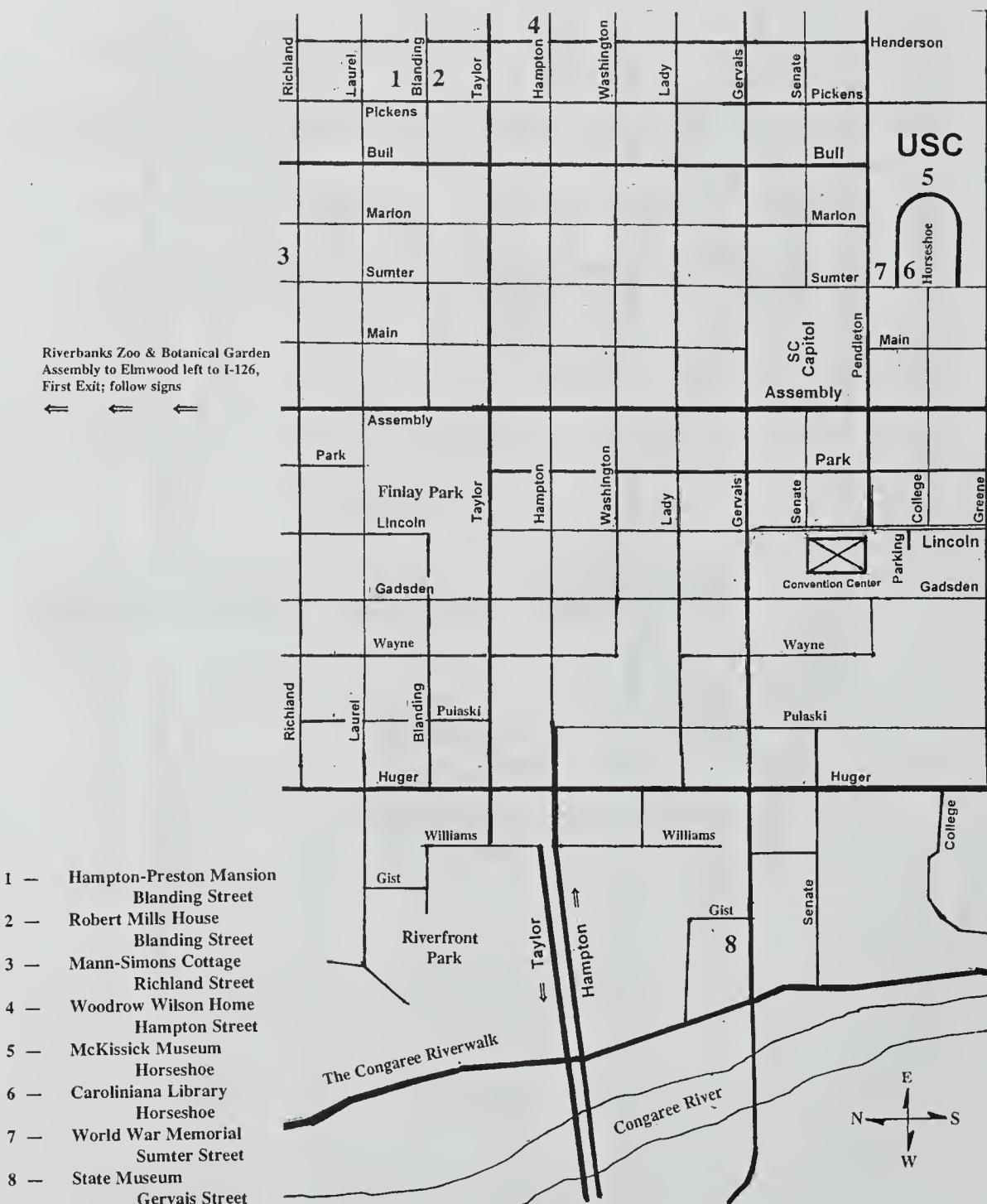
To the Motels

- 1-INN at USC
- 2-Whitney Hotel
- 3-Clarion Townhouse
- 4-Holiday Inn
- 7-Hampton Inn



To the Motels

Columbia: Historical Sites and Memorable Sights



ASB 2007 FIELD TRIPS

For its geographic area, South Carolina is rich in natural habitats and species diversity, and thus presents many excellent opportunities for biological research. The western third of the Palmetto State comprises Blue Ridge and piedmont ecoregions. The lower two-thirds of the state is dominated by its coastal plain, and related fall-line sandhills. A series of field trips has been planned for the exploration of the costal plain and sandhills.

Trips are approximately a half day in length and will involve caravans. Car pooling, where possible, will be encouraged. All trips will begin from the Columbia Convention Center. "One way" participation, that is, without a return to Columbia, is OK. Lunch will be on your own; bring whatever food and water you will need.

The middle of April in South Carolina is a beautiful time, as spring literally erupts across the state. Nevertheless, we often have cool snaps and sudden rainy weather in the spring, and storms are possible. Participants are requested to dress appropriately (including selecting proper footwear), and to be aware that ALL the field trips involve potential wet or muddy places. Spring is not particular bad in the mosquito and yellow-fly department (that's during the summer!), but insect repellent may be useful. The best philosophy, of course, is to be a good boy scout or girl scout, and to BE PREPARED. Consider also that we are home to several trillion fire ant nests, which can make a field trip very unpleasant. Departure and return times may be subject to minor changes which will be announced. For information, contact field trip coordinator John Nelson.

1. **Congaree Bluffs Heritage Preserve** — Calhoun County SC. 9:00am-1:00pm. Trip leader: Ann Darr, SCDNR. One of the newest members of South Carolina's heritage sites, situated on the south side of the Congaree River, featuring 200' riverine bluffs, and a spectacular view of the Congaree River floodplain.
2. **Flat Creek Heritage Preserve** — Lancaster County SC. 9:00am-1:00pm. Trip leader: Kathy Boyle, SCDNR. Long known as one of the best developed granitic flatrock ecosystems in the Southeast, featuring healthy populations of the endangered poolsprite (*Amphianthus pusillus*). Associated forests, underlain by a massive diabase dike, feature calciphilic vegetation.
3. **Congaree National Park** — Richland County. 9:00am-1:00pm. L. L. Gaddy, Terra incognita, Inc. A complex of various bottomland ecosystems, along with mesic bluff communities; the largest contiguous tract of virgin forest remaining in South Carolina, and home to a number of national champion trees. Nearly 800 species of vascular plants reside here.
4. **Stevens Creek Heritage Preserve** — McCormick County SC. 9:00am-1:00pm. Trip leader: Rudy Mancke, USC. One of the Southeast's most diverse botanical sites, featuring a large number of rare species and a rich spring floral

display. This site is considered a relict pleistocene habitat, whose biological affinities are largely northern.

5. **Birding field trip** — Destination, time TBA. Trip leader: John Cely. Destination, time TBA. Characteristic avian fauna of the SC midlands. Special attention will be paid to the many spring migrants of this area.

6. **Herpetological field trip** — Hampton and Jasper Counties SC, SCDNR properties. 9:00am-until? Trip leaders: Stephen Bennett, SCDNR, Julian Harrison, College of Charleston. Reptiles and amphibians, and their habitats, from a variety of low-country sites.

7. **Sandhill excursion: Peachtree Rock Heritage Preserve** — Shealy's Pond Heritage Preserve. 9:00-until? Trip leaders: Bert Pittman, SCDNR, Wayne Grooms. The first Nature Conservancy Preserve in SC, now a Heritage Preserve. Unusual geologic formations support a variety of habitats and rare species. You'll see the highest natural waterfall between Columbia and Charleston, and an excellent example of a blackwater sandhill stream, complete with an Atlantic white-cedar bog.

Thursday Education Workshop

The Education Committee will offer a workshop entitled, "Going to the next level: A session for undergraduate and graduate students planning to continue their education or enter a professional career"

Thursday Human Diversity Workshop

The Committee on Human Diversity will hold a luncheon and Mentoring Workshop. The workshop will include topics such as: How to Choose a Mentor; How to make the Most out of a Mentoring Relationship; and How to Become a Mentor. Following an opening presentation on each of these topics, participants will move into break-out groups for topic-based discussion

Saturday Curators Workshop

SERNEC (SouthEast Regional Network of Expertise and Collections) is a National Science Foundation funded Research Coordination Network. The primary goal of this network is to facilitate the herbarium databasing effort in the Southeast. The 150 herbaria in the Southeast collective house a critical collection of specimens and we are at the forefront of a nationwide effort to make all the botanical collections available online by the year 2020.

In addition to this major goal of the network, we also want to develop a virtual community of curators to facilitate other educational and research projects in the region. By doing this, we hope to expand the role of herbaria in the sciences and in society. Our website at SERNEC.ORG can provide more information about these efforts.

The workshop is designed to bring together the curators of the region for a one day meeting on Saturday April 21 to learn about the tools and facilities available to help ongoing efforts and to discuss ways that we can work together to accomplish our goals.

Limited funds are available to offset participant travel costs to attend this workshop. Coffee breaks and lunch will be provided by SERNEC. The meeting will be held in CLS 005 on the USC campus.

Agenda April 21, 2007

- 8:30 Welcome and introductions
- 9:00 What is SERNEC? – Zack Murrell
- 9:30 Outline of goals for day (with discussion)
- 10:00 National Biological Information Infrastructure – Fred Rascoe
- 10:30 Coffee break
- 10:45 Curatorial tools for imaging, databasing, curation, and research facilitation (Panel Discussion)
- 12:00 Box lunch
- 1:00 Break-out into working groups (databasing and images, research, teaching k-12, teaching college and technical, community outreach)
- 2:15 Report from working groups
- 3:00 Coffee break
- 4:15 Summary – Current status and future of SERNEC - Zack Murrell
- 4:30 Meeting close

Symposia

I. Ecological Impacts and Coastal Ecosystem Resiliency Following Hurricane Katrina.

In the wake of Hurricane Katrina, the University of South Carolina's Office for Research and Health Sciences awarded nearly \$400,000 in grants to fund 18 research projects on the environmental and societal impacts of the massive storm as part of the university's CRISIS (Coastal Resiliency Information Systems Initiative for the Southeast) initiative. The grants enabled USC researchers and their collaborators at universities in the Gulf Coast, including Louisiana State University, Tulane, the University of Southern Mississippi, and the University of South Alabama, to investigate the disaster, capture perishable data necessary to understand aspects of coastal resiliency, and examine the recovery of natural processes and ecosystems and the societal changes that occur with the relocation of residents and the rebuilding of communities. This symposium will include presentations from five of these projects that span a range of interests and topics, but all focus on the ecological effects of the hurricane and touch on the implications for ecosystem recovery

Speakers and Titles:

John Kupfer. University of South Carolina-Columbia—Welcome and Introduction.

Joseph Quattro¹, Mark Roberts¹, James Grady² and William Diggers³. University of South Carolina-Columbia¹, University of New Orleans² and National Marine Fisheries Service³—Potential impacts of hurricane Katrina on local populations of grass shrimp (*Palaemonetes pugio*).

Samuel P. Walker¹, Dwayne E. Porter¹, Madilyn Fletcher¹, and Mark S. Woodrey², University of South Carolina-Columbia¹ and Mississippi State University²—Observing Hurricane Katrina impacts and responses in the Grand Bay, MS National Estuarine Research Reserve.

James L. Pinckney, Meghan, Jelloe, Michael Coggins and Danielle Johnson. University of South Carolina-Columbia—Phytoplankton community structure responses to urban effluent inputs following Hurricane Katrina.

John A. Kupfer. University of South Carolina-Columbia—Patterns and controls of forest damage following Hurricane Katrina in DeSoto National Forest, Mississippi.

J. E. Moore¹, J. Kupfer², S. Pierce¹ and S. B. Franklin^{1,1}University of Memphis and ²University of South Carolina—Effects of Hurricane Katrina on Southern Mississippi Coastal Forest soil and water chemistry.

Panel Discussion and Questions

II. A Symposium in Honor of Albert E. Radford (1918-2006): Contributions to Southeastern Botany, Floristics, Ecology, and Conservation.

Introduction:

Alan S. Weakley North Carolina Botanical Garden, University of North Carolina at Chapel Hill—A remembrance of Albert E. Radford (1918-2006).

Inventory and Conservation:

Patrick D. McMillan. Clemson University—A revision of the *Rhynchospora globularis* species group.

Systematics:

Katherine G. Mathews. Western Carolina University—Systematics and biogeography of *Sabatia* (Gentianaceae).

Bruce A. Sorrie. University of North Carolina, and North Carolina Natural Heritage Program—Identification, distribution, and habitat of needle-leaved species of *Hypericum* (Hypericaceae).

James R. Allison. Rutledge, Georgia—*Hypericum radfordiorum* sp. nov., an endemic species of the Brushy Mountains of North Carolina.

L. L. Gaddy. terra incognita—The status of pond cypress (*Taxodium ascendens*)-dominated wetlands associated with Canby's dropwort (*Oxypolis canbyi*) in North Carolina, South Carolina, and Georgia

Floristics:

Alan S. Weakley. University of North Carolina at Chapel Hill—A new flora for the Carolinas, Virginia, Georgia, and adjacent areas.

J. Christopher, Alan Weakley and John F. Townsend. The *Flora of Virginia* Project—A new flora for the Old Dominion: a progress report.

Bioinformatics and Biogeography:

Zack E. Murrell and Derick Poindexter. Appalachian State University—The role of cyberinfrastructure in conservation and biogeography in the Southeast.

Robert K. Peet, Alan S. Weakley, and Xianhua Liu. University of North Carolina at Chapel Hill—A floristic atlas for the Southeast that uses taxon concept relationships to integrate distribution data.

Donna M. E. Ware¹ and Gary P. Fleming². College of William and Mary¹, and Virginia Department of Conservation and Recreation²—Soil calcium and pH and distribution patterns of mountain plants disjunct to the Coastal Plain in Virginia.

III. Status of the Herbarium Cyberinfrastructure in the Southeast

SERNEC (Southeast Regional Network of Expertise and Collections) is a five-year project funded by the National Science Foundation to develop a network of herbaria in the Southeast. This network is designed to encourage cooperation in databasing the collections by the year 2020, while at the same time developing herbaria as community centers for learning about plants. The curators from the 150 herbaria in the Southeast will meet on Saturday after the ASB meeting for a workshop on “Research, Collaborations and Funding”. The symposium will be a “kick-off” for that workshop, providing time for representatives to present the projects and ongoing efforts from each state. This will allow others to see the novel projects being developed and will provide a foundation for discussions on Saturday.

Speakers:

Zack Murrell and Derick Poindexter. Appalachian State University—SERNEC: a regional network of herbarium curators.

Austin Mast and Gil Nelson. Department of Biological Science, Florida State University—The deep south plant specimen imaging project.

Curtis J. Hansen¹ and Daniel D. Spaulding². Auburn University¹ and Anniston Museum of Natural History²—The Alabama Flora Committee: a botanical collaborative.

George P. Johnson¹ and Johnnie L. Gentry². Arkansas Tech University¹ and University of Arkansas-Fayetteville²—The Arkansas Vascular Flora Project and the Arkansas Herbarium Network: The flora, the database, and education and outreach programs.

Andrea Weeks. George Mason University—Virginia herbarium and library network.

Gerald W. Long. Francis Marion University—The Consortium of South Carolina Herbaria.

Michelle L. Zjhra. Georgia Southern University—Georgia Southern University herbarium: Progress and problems.

Ronald K. Jones¹ and Ralph L. Thompson². Eastern Kentucky University¹ and Berea College²—Status of Kentucky Herbaria in 2006.

Thomas W. Sasek. University of Louisiana at Monroe—Status of Louisiana herbaria.

Lucile M. McCook. University of Mississippi—State of Mississippi herbaria.

Joey Shaw, Ryan Miller and Andrew Carroll. University of Tennessee at Chattanooga—The development of a real-time, GIS-based interface for geographically displaying information inherent in herbarium data.

Alexander Krings. North Carolina State University—State of North Carolina herbaria.

Roland P. Roberts¹ and Robert F. C. Naczi². Towson University¹ and Delaware State University²—Research and teaching using herbarium collections in Maryland and Delaware.

Guy Nesom. Botanical Research Institute of Texas —Status of BRIT, other Texas herbaria, and TORCH

Commercial Workshops

All commercial workshops will be presented by exhibitors for all registered attendees during the regular hours of the meeting. The fee for each workshop will be \$10 each. You may register to attend one or more workshops during the Annual ASB Meeting. Topics range from the non-formaldehyde preservative used in dissection to the latest uses of plant life. Plan to attend one of this year's during the Annual Meeting and learn about the latest tips from the experts

Commercial Workshop Listings

Title: Classroom Wonders: Wisconsin Fast Plants® and C-FERN®

Date: Wednesday, April 18, 2007

Time: 3:30pm-5:30pm

Location: Columbia Convention Center-Room: Carolina A&B

Wisconsin Fast Plants® and C-FERN® allow you to cover a broad spectrum of biology with minimal equipment and space. No greenhouse is needed. Possible topics include plant life cycles, alteration of generations, genetics, plant physiology, environmental effects, genetic variation, population biology, evolution and more.

Title: New Trends in Data Acquisition for the Student Physiology Laboratory

Date: Thursday, April 19, 2007

Time: 8:30am-10:00am

Location: Columbia Convention Center-Room: Carolina A&B

Advances in technology for the classroom have led to more options for today's biology educator. Web-based learning, smart sensors, better multimedia as well as other hardware/software resources provide plenty of learning experiences for the biologist. Come and learn more.

Title: Life in an Extreme Environment. *Halobacterium* sp. NRC-1: A New Model Organism for the Laboratory

Date: Thursday, April 20, 2007

Time: 10:30am-12 noon

Location: Columbia Convention Center-Room: Carolina A&B

Introducing the new model microbe, *Halobacterium* sp. NRC-1 ! A member of Archaea, the 3rd domain of life. *Halobacterium* is an extremophile because it requires an environment several times saltier than the ocean. While few other organisms can survive in such conditions, *Halobacterium* cannot survive outside them. This makes the microorganism ideal for teaching microbiology, genetics, bioinformatics and more.

Title: SQUID INK-UIRY: Inquiry-based Invertebrate Anatomy through Squid Dissection

Date: Thursday, April 19, 2007

Time: 1:30pm-3:00pm

Location: Columbia Convention Center-Room: Carolina A&B

These beautiful, mysterious creatures fascinate students and teachers. Learn morphology and anatomy of the common squid, a representative mollusk, through hands-on, guided, basic dissection and detailed dissection of the organ systems. Large specimens provide a clear view of invertebrate anatomy. Much easier than other mollusks, such as clams.

Title: Inquiry-based Rat Dissection with Carolina's™ Perfect Solution®

Date: Thursday, April 19, 2007

Time: 4pm-5:30pm

Location: Columbia Convention Center-Room: Carolina A&B

Experience superior quality with Carolina's™ Perfect Solution®, a safe alternative to formaldehyde. This revolutionary, proprietary fixative is nontoxic, no formaldehyde odor, no special ventilation or disposal. Carolina's™ Perfect Solution® specimens are the finest, safest Preserved specimens available. Carolina's™ Perfect Solution® Rats are visibly better, unique and exclusive (not available elsewhere).

Title: Comparative Mammalian Organ Dissection with Carolina's™ Perfect Solution® Specimens

Date: Friday, April 20, 2007

Time: 8:30am-10:00am

Location: Columbia Convention Center-Room: Carolina A&B

Dissect a mammal brain, eye, heart, and kidney. Observe structure and explore physiological links between organ systems. Note the tissue types and compare blood flow and innervations within each specimen. Find differences in tissue type, epithelial lining, and blood supply. Identify structures representative of class Mammalia.

Silent Auction

Once again, ASB will have a Silent Auction in the Exhibit Hall. 100% of all proceeds will benefit student travel to the Annual Meeting. Last year's Silent Auction was a big success. Let's plan on another successful event to assist students with their travel expenses to the meeting in Columbia

Social Events

Wednesday night mixer: The event will be in the exhibitor hall immediately following the Plenary Session. Sign up for this FREE event when you register for the meeting. Kick off our Annual Meeting with a Big Bang! Heavy Hors d'oeuvres and a cash bar will be available.

Thursday night social: ASB has a historic reputation for hosting an exciting and fun-filled Thursday Night Social. And this year is no different ! We are bringing the Beach to Columbia!!! This year's event will be held at the brand new Strom Thurmond Wellness & Fitness Center on the beautiful campus of the University of South Carolina. This world-class facility has over 192,000 square feet of indoor space, outdoor pool and sand volleyball courts.

Since 1971, The Second Nature Band has been a regional favorite for Country Clubs, College Campuses, Reunions and Convention Groups. They will provide an evening of the most popular Beach & Dance Music and are a top choice for Festivals and Beach Shows. The band's repertoire contains exceptional variety to excite any gathering. Bring your sliding dancing shoes.....you will want to learn "The Shag" that was invented in South Carolina.

The outdoor pool will be open (life-guards will be on duty) and sand volleyball courts will also available for everyone to enjoy!

Bring your swimsuit, your appetite, your dancing shoes and yourself to this sure-to-be-fun night of enjoyment!

ASB will provide continuous transportation to/from the event-no driving required!



Outdoor Pool Area
Strom Thurmond Wellness & Fitness Center

Friday night Awards Banquet: This year's event will be a change from the past in many ways. Students will enjoy a drastically reduced price of \$15 per person. This is a 40% reduction from last year's ticket price. Vegetarian meals will be available upon request. Following dinner, award presentations will be made. The Past President's speech will NOT be presented in Columbia. Other entertainment will be provided for your enjoyment. (A reminder: those competing for awards must be present at the banquet in order to receive the award).

Activities for Guests

There are a plethora of interesting places to visit not too distant from the Columbia Convention Center. The short list includes: Riverbanks Zoo and Botanical Garden; State Museum, Confederate Relic Room and Museum; McKissick Museum and USC Visitor Center; Columbia Riverfront Park and Historic Canal; and the Caroliniana Library, the first free-standing college library in the United States. Among many other attractions are several homes open to the public: *Hampton-Preston Mansion and Gardens*, Built in 1818, this restored antebellum mansion is furnished with Hampton and Preston family pieces; *Mann-Simons Cottage*, Celia Mann, an enslaved Charleston midwife who acquired her freedom and walked to Columbia, lived here from the 1840s until 1867; *Robert Mills House & Park*, This restored mansion was built in 1823 and designed by South Carolina's most famous architect, Robert Mills; and the *Woodrow Wilson Family Home*, Woodrow Wilson, the nation's 28th president, spent four years of his youth in Columbia. He and his family lived in this home built by his parents in 1872.

Conference Badges

You will receive your meeting badges when you arrive in Columbia. Simply proceed to the Registration Area in the Columbia Convention Center to receive your badge. Family members of meeting participants should ask for guest conference badges at the registration desk. **YOU MUST WEAR YOUR BADGE TO ALL FUNCTIONS, INCLUDING SOCIAL EVENTS!**

Hotel Information

ASB has secured the following hotels at a discounted rate for exhibitors and attendees. Please remember to ask for the special ASB discounted rate when making reservations. The following hotels are providing additional services to accommodate ASB. Please make your reservations soon. The Inn at USC is our Headquarters Hotel has been secured for Exhibitors and Regular Members. The Riverside Inn and the Holiday Inn City Centre has been designated for student housing. Please make your reservations as soon as possible. Please visit their web sites for directions to their property. **THE LAST DAY TO RESERVE A ROOM AT THE DISCOUNTED RATE IS 3/01/07.**

2007 ASB Group Discount Hotels

<u>Hotel</u>	<u>Rates & Rating</u>	<u>Notes of Interest</u>
<u>Headquarters Hotel</u> The Inn at USC 1619 Pendleton Street Columbia, SC 29201 7 Blocks to Convention Center www.innatuse.com ; 803/779-7779	S/D/T/Q*: \$116.10 5 Star	Made to Order Breakfast Included At least one occupant must be 21 or older University Affiliated, Very nice property
The Clarion 1615 Gervais Street Columbia, SC 29201 8 Blocks to Convention Center; www.clariontownhouse.com ; 803/771-8711	S/D/T/Q: \$85.95 4 Star	Very Nice Restaurant
Hampton Inn- West Columbia/I-26 1094 Chris Drive Columbia, SC 29201 4.6 miles to Convention Center www.hampton-inn.com/hi/columbia-airport ; 803/791-8940	S/D/T/Q: \$89.00 4 Star	Extended Continental Breakfast Included
The Whitney 700 Woodrow Street Columbia, SC 29205 21 Blocks to Convention Center www.whitneyhotel.com ; 803/791-8940	1 BRS**: \$109.00 2 BRS: \$129.00 4 Star	Very Spacious, Converted Condos Continental Breakfast, Best Value
<u>Student Housing</u> Riverside Inn 111 Knox Abbott Drive Cayce, SC 29033 1.2 miles to Convention Center www.riversideinnncolumbia.com ; 803/939-4688	S/D: \$57.00 T/Q: \$67.00 2 Star	½ Block from Riverwalk
<u>Student Housing</u> Holiday Inn-City Centre 630 Assembly Street Columbia, SC 29201 5 Blocks to Convention Center; www.holidayinnatusc.com ; 803/799-7800	S/D: \$67.00 3 Star	Continental Breakfast Convenient to all functions
Hampton Inn- Downtown Historic District 822 Gervais Street Columbia, SC 29201 Adjacent to Convention Center www.HamptonInnColumbia.com	S/D: \$149.00 5 Star	Extended Continental Breakfast Included Does Not Provide ASB Group Rate Convenient to the Vista and Nightlife

* Single, Double, Triple, Quad. ** Bedroom Suite

Darwin on Display

The Thomas Cooper Library, University of South Carolina will present CHARLES DARWIN — An exhibition from the C. Warren Irvin, Jr., Collection of Charles Darwin. The exhibition will be located in the Mezzanine Exhibit Gallery, April 3-June 15, 2007: free, open all regular library hours. This exhibition, the first major exhibit from the library's Irvin Collection for several years, has been mounted in recognition of the Department of Biological Sciences' first A. C. Moore Endowed Lecture (April 3) and the annual meeting at the University of the Association of Southeastern Biologists, April 18-21. The exhibit will cover the whole of Darwin's career, with a recently-acquired autograph letter about his Origin of Species, first editions of all his books and many of his periodical contributions, maps, and related visual materials. The Thomas Cooper Library is on Greene Street east of Sumter Street (see first "To the Motels" map).

cos

NEWS OF BIOLOGY IN THE SOUTHEAST

Ricky Fiorillo—News Editor*
Department of Biology
University of Louisiana at Monroe
Monroe, LA 71209

ABOUT PEOPLE AND PLACES

TENNESSEE

Dr. Gordon M. Burghardt, Alumni Distinguished Service Professor of Psychology and Ecology and Evolutionary Biology, and University Macebearer for 2005-2006, University of Tennessee, Knoxville, gave an invited symposium lecture at the meeting of the International Behavior and Neural Genetics Society meeting at the University of British Columbia in Vancouver, B.C., Canada, in May 2006. He also gave two invited Plenary Session talks at the Croatian Biological Congress in Rovinj, Croatia, in September 2006. Dr. Burghardt has been appointed a Distinguished Scientist Lecturer for the American Psychological Association for 2007 and will give an invited talk to the Western Psychological Association meeting in May 2007 in Vancouver, B.C., Canada. cos

*Please email any news items to fiorillo@ulm.edu.



Advertising with the Association of Southeastern Biologists

Reach Your Target Audience and
Promote Your Products and Services Throughout the Year!!
Advertise in *Southeastern Biology*.

Advertise in Southeastern Biology and reach over 1,500 members from 40 states and 13 countries. ASB publishes 4 issues of Southeastern Biology per year and an On-Site Program for the Annual Meeting. Choose one or both opportunities to increase your marketing exposure. Promote your products and services throughout the year

1/4 Page 1½" X 1"
1/2 Page 3" X 2"
Full Page 7½" X 4 ¾"

Yes I would like an AD in all 4 issues of *Southeastern Biology* (circle choice)

1/4 page = \$200, 1/2 page = \$325, full page = \$425

AD in Final On-Site Program (circle choice)

1/4 page = \$175, 1/2 page = \$225, full page = \$275

All ads are black and white

Signature

Date

phone

Title

e-mail

Return Form with Check or Credit Card Information to: Scott Jewell, ASB Meeting Planner, PO Box 1088, Mebane, NC 27302; 336/213-7373 cell, 336/421-0034 office, 336/421-3425 fax. A2Zconvention@yahoo.com.

***Local Committee Assignments
For The 68th Annual Meeting
University of South Carolina
Columbia, South Carolina***

<i>Local Arrangements Chair:</i>	John Herr herr@biol.sc.edu	(803) 777-8110
<i>Program Committee:</i>	David Lincoln lincoln@biol.sc.edu	(803) 777-7306
	Rob Raguso raguso@biol.sc.edu	(803) 777-7074
<i>Commercial Exhibits and Workshops:</i>	Dick Zingmark and MC* zingmark@biol.sc.edu	(803) 777-4873
	Jerry Hilbush hilbush@biol.sc.edu	(803) 777-6629
<i>Field Trips:</i>	John Nelson nelson@biol.sc.edu	(803) 777-8196
<i>Social Events:</i>	David Rembert and MC* rembert@biol.sc.edu	(803) 777-0096
<i>Transportation/Parking:</i>	Robert Feller feller@biol.sc.edu	(803) 777-3937
<i>On-Site Registration:</i>	Gerald Cowley	(803) 772-0539
<i>Volunteer Coordinator:</i>	Dick Vogt vogt@biol.sc.edu	(803) 777-8101
<i>Tri-Beta Coordinators:</i>	David Reisman reisman@biol.sc.edu	(803) 777-8108
	Loran Knapp knapp@biol.sc.edu	(803) 777-2557
<i>Audiovisual Coordinator:</i>	Clint Cook and MC* cook@biol.sc.edu	(803) 777-3975
<i>Promotions:</i>	Tim Mousseau and MC* mousseau@biol.sc.edu	(803) 777-8047
	Richard Showman showman@biol.sc.edu	(803) 777-2457
<i>Hotel Accommodations:</i>	Scott Jewell (the MC)*	
<i>*Meeting Coordinator (MC):</i>	Scott Jewell a2zconvention@yahoo.com	(336) 421-0034

AFFILIATE SOCIETIES MEETING WITH ASB
APRIL 18-21, 2006

The following affiliate societies, except the **SE Division of ASIH**, **Southeastern Fishes Council**, **Southeastern Microscopy Society**, and **Southeastern Society of Parasitologists**, will be in attendance at the 2007 Annual Meeting. We anticipate an excellent diversity of paper and poster presentations. The societies and their contacts are listed below.

**American Society of Ichthyologists
and Herpetologists**

Southeastern Division

Dr. Gregory L. Fulling
Senior Fisheries Biologist/
Geo-Marine, Inc.
550 East 15th Street
Plano, TX 75074
(972) 423-5480; Fax: (972) 422-2736
e-mail: gfulling@geo-marine.com

e-mail: lmusselm@odu.edu
<http://web.odu.edu/lmusselman>

**Beta Beta Beta
Southeastern District I**

Dr. Virginia Martin
Queens College of Charlotte
1900 Selwyn Avenue
Charlotte, NC 28274
(704) 337-2261
e-mail: martinv@rex.queens.edu

**Ecological Society of America
Southeastern Chapter**
Dr. Frank S. Gilliam
Department of Biological Sciences
Marshall University
Huntington, WV 25755-2510
Phone: (304) 696-3636
FAX: (304) 696-3243
e-mail: gilliam@marshall.edu

**Beta Beta Beta
Southeastern District II**

Dr. Donald H. Roush
Dept. of Biology, Box 5181
University of North Alabama
Florence, AL 35632-0001
(256) 765-4435
e-mail: droush@unanova.una.edu

Society of Herbarium Curators
Dr. Zack Murrell
Department of Biology
Appalachian State University
Boone, NC 28608
(828) 262-2674 Fax:
e-mail: murrellze@appstate.edu

**Botanical Society of America
Southeastern Division**

Dr. Lytton John Musselman
Mary Payne Hogan Professor of
Botany and Chair
Department of Biological Sciences
110 Mills Godwin Building/45th St
Old Dominion University
Norfolk, VA 23529-0266
(757) 683 3595; Fax: (757) 683 5283

**Society of Wetland Scientists
South Atlantic Chapter**
Gregory B. Noe
U.S. Geological Survey
430 National Center
Reston, VA 20192
(703) 648-5826; Fax: (703) 648-5484
e-mail: gnoe@usgs.gov

Southeastern Fishes Council

Dr. Noel M. Burkhead
USGS/FISC Geological Survey
Center for Aquatic Resource Studies
7920 NW 71st Street
Gainesville, FL 32653
(352) 378-8181; Fax: (352) 378-4956
e-mail: noel_burkhead@usgs.gov

Southeastern Microscopy Society

Dr. Judy King, President, SEMS
Department of Pathology
University of South Alabama
2451 Fillingim Street
Mobile, AL 3617-2293
(251) 471-7779; Fax: (251) 470-5817
e-mail: jking@usouthal.edu

Southeastern Society of Parasitologists

Dr. Charles Faulkner
Dept. of Comparative Medicine
College of Veterinary Medicine

University of Tennessee

2407 River Drive
Knoxville, TN 37996-4543
(865) 974-5718; Fax: (865) 974-6232
e-mail: ctfaulkner@utk.edu

Southern Appalachian Botanical Society

Dr. Howard Neufeld
Department of Biology
Appalachian State University
Boone, NC 28608
(828) 262-2683; Fax: 828-262-2127
e-mail: neufeld@appstate.edu ☎

Sponsorships/Industry Partners

A wide selection of special sponsorships will be available to our Industry Partners. Please view the sponsorships on our web site: www.asb.appstate.edu. For additional information you may call or e-mail our Meeting Planner, Scott Jewell, office: 336/421-0034, cell 336/213-7373, A2ZConvention@yahoo.com. ☎

Advertising

The ASB is now offering advertising space in one or more of our quarterly publications, Southeastern Biology. Advertisers may also purchase space in our final on-site program, The ASB Schedule-At-A-Glance. Please view pricing structure, specifications and deadline scheduling on our web site: www.asb.appstate.edu. For additional information you may call or e-mail our Meeting Planner, Scott Jewell, office: 336/421-0034, cell 336/213-7373, A2ZConvention@yahoo.com. ☎

SPECIAL REMINDERS FROM THE PRINT EDITOR

ASB BANQUET ATTENDANCE

Please keep in mind that recipients of ASB awards must be present at the annual ASB banquet to receive the award. Therefore, all applicants for ASB awards must attend the banquet to insure the presence of the winners.

PLEASE NOTE Publication of Abstracts

As reported in the JOURNAL CHANGES announcement on page 45 of the January, 2007, issue of *Southeastern Biology*, the ASB and BBB abstracts of papers and posters presented at the annual meeting will be published in the July, 2007, issue of *Southeastern Biology*.

Please be aware that only the abstracts of papers and posters presented at the annual meeting will be published in the July issue. If a problem arises with the presentation of your paper and/or poster in person at the annual meeting, please notify the Local Arrangements Chair, John Herr, as soon as possible to work out a resolution of your situation. His e-mail address is herr@biol.sc.edu, and his telephone number is (803) 777-8110.

INSTRUCTIONS FOR SUBMITTING ORAL PRESENTATIONS

All oral presentations will be done using Microsoft PowerPoint only. Presenters should bring a backup copy on a CD disk or flash memory drive.

FINAL SUBMISSION OF CD

Complete and final presentations must be submitted on CD to the audiovisual coordinator to be received by April 11. The first author's name and truncated title should be written on the upper surface of the CD using an indelible marker.

Submit the CD to be received by the April 11 deadline to: ATTN: ASB 2007 Annual Meeting, c/o Mr. Clint Cook, Department of Biological Sciences, University of South Carolina, Columbia, SC 29208. ☺

JOURNAL CHANGES

The Print Editor, James Caponetti, in consultation with the Archivist, John Herr, and with the approval of the Executive Committee, has made changes in the month of journal issue with a concomitant re-distribution of some items of information. The objective is to consolidate some items of information in successive issues, avoid repetition, solve some problems, and reduce journal costs. Beginning with Volume 54 for 2007, there will be January, April, July, and October issues. This sequence will place information in a more chronological order through the year, and will place the issues on an even distribution of two months apart leading to a more timely communication with the membership.

THE JANUARY ISSUE

The January issue will contain information on the subsequent annual meeting in April including information on the host institution/meeting site/events, tentative program, registration information, plenary speaker/symposia/workshops/exhibitors information, local arrangements committee list, affiliate societies list, and special reminders page. Other items will include the Wednesday and Saturday Executive Committee meeting minutes from the previous April meeting, *Southeastern Naturalist* information, book reviews, news of biology in the Southeast, obituaries, and commercial/patron member advertisements.

THE APRIL ISSUE

The April issue will contain the message from the President, the ASB candidates for office list with biographies/pictures, complete annual meeting information with up-dates/changes, final program summary, complete workshops/exhibitors list, a scheduled listing of paper/poster/symposium sessions, special reminders page, and other items (*Southeastern Naturalist* information, etc.). The abstracts will go into the July issue.

THE JULY ISSUE

The July issue will contain the past September interim Executive Committee meeting minutes, the AIBS and AAAS representative's reports, the annual business meeting minutes from the April meeting, the paper/poster/Beta Beta Beta abstracts with author index of only those papers/posters presented at the annual April meeting, special reminders page, and other items (*Southeastern Naturalist* information, etc.).

THE OCTOBER ISSUE

The October issue will contain the message from the President, the events of the previous April meeting (awards, etc.), resolutions, Treasurer's reports, Past President's report, plenary address, symposia summaries, newly appointed committees list, the Call for Papers for the next annual meeting, special reminders page, the nominations for office page, the award announcements for the next year, and other items (*Southeastern Naturalist* information, etc.) including the required USPS ownership pages. ☙

ASB PAPER AND POSTER SESSIONS**PLEASE NOTE
Publication of Abstracts**

As reported in the JOURNAL CHANGES announcement on page 45 of the January, 2007, issue of *Southeastern Biology*, the ASB and BBB abstracts of papers and posters presented at the annual meeting will be published in the July, 2007, issue of *Southeastern Biology*.

Please be aware that only the abstracts of papers and posters presented at the annual meeting will be published in the July issue. If a problem arises with the presentation of your paper and/or poster in person at the annual meeting, please notify the Local Arrangements Chair, John Herr, as soon as possible to work out a resolution of your situation. His e-mail address is herr@biol.sc.edu, and his telephone number is (803) 777-8110.

ASB PAPER SESSIONS**THURSDAY, APRIL 19, 2007****MORNING SESSION****Symposium I — Ecological Impacts and Coastal Ecosystem Resiliency
Following Hurricane Katrina****Ballroom A****Presiding: John A. Kupfer, University of South Carolina**

8:30		KUPFER, JOHN A. University of South Carolina-Columbia—Welcome and Introduction.
8:45	1	QUATTRO, JOSEPH¹, MARK ROBERTS¹, JAMES GRADY² AND WILLIAM DRIGGERS³. University of South Carolina-Columbia ¹ and University of New Orleans ² and National Marine Fisheries Service ³ —Potential impacts of hurricane Katrina on local populations of grass shrimp (<i>Palaemonetes pugio</i>).
9:15	2	WALKER, SAMUEL P.¹, DWAYNE E. PORTER¹, MADILYN FLETCHER¹ AND MARK S. WOODREY². University of South Carolina-Columbia ¹ and Mississippi State University ² —Observing Hurricane Katrina impacts and responses in the Grand Bay, MS National Estuarine Research Reserve.
9:45		<u>COFFEE BREAK: VISIT EXHIBITS AND POSTERS</u>
10:15	3	PINCKNEY, JAMES L., MEGHAN JELLOE, MICHAEL COGGINS AND DANIELLE JOHNSON. University of South Carolina-Columbia—Phytoplankton community structure responses to urban effluent inputs following Hurricane Katrina.

10:45 4 **KUPFER, JOHN A.** University of South Carolina-Columbia—Patterns and controls of forest damage following Hurricane Katrina in DeSoto National Forest, Mississippi.

11:15 5 **MOORE, J. E.¹, J. A. KUPFER², S. PIERCE¹ AND S. B. FRANKLIN¹.** University of Memphis¹ and University of South Carolina-Columbia²—Effects of Hurricane Katrina on Southern Mississippi Coastal Forest soil and water chemistry.

11:30 **Panel Discussion and Questions**

Plant Biology I
Lexington A

Presiding: Donna M. E. Ware, College of William and Mary

9:00 6 **LLOYD, MICHAEL W. AND ROLAND P. ROBERTS.** Towson University—Genetic structure of six North American populations of *Arabidopsis lyrata* spp. *lyrata*.

9:15 7 **ELLIS, JENNIFER R. AND DAVID E. MCCUALEY.** Vanderbilt University—An EST-SSR based approach to studying the population genetics of an endangered sunflower.

9:30 8 **NESS, JENNIFER M.** East Carolina University—Introgression and self-incompatibility in *Leptosiphon* (Polemoniaceae).

9:45 9 **TAYLOR, MACKENZIE L. AND JOSEPH H. WILLIAMS.** University of Tennessee—Fertilization timing and the pollen tube pathway in *Brasenia* and *Cabomba* (Cabombaceae, Nymphaeales).

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30 10 **WEBER, JENNIFER AND CAROL GOODWILLIE.** East Carolina University—Reproductive assurance by self-fertilization in *Leptosiphon jepsonii*.

10:45 11 **GOODRICH, KATHERINE¹, MICHELLE ZJHRA² AND ROBERT RAGUSO¹.** University of South Carolina-Columbia¹ and Georgia Southern University²—Floral biology and molecular systematics of *Asimina* and *Deeringothamnus* (Annonaceae).

11:00 12 **FOWLER, KADRIN E. AND JAY F. BOLIN.** Old Dominion University—Pollination biology of *Pyxidanthera barbulata* Michx. (Diapensiaceae).

11:15 13 **SHRESTHA, SUSHMA AND DAN K. EVANS.** Marshall University—Marketplace plants used in ceremonial cleansing among highland Qechuans of Ecuador.

11:30 14 **IACARELLA, LUKE AND DAVID VANDERMAST.** Elon University—Does North Carolina contain a cornucopia of medicinal plants?

Plant Ecology I
Lexington B

Presiding: Michael E. Held, Saint Peter's College

8:45 15 **HELD, MICHAEL E.¹ AND JOE E. WINSTEAD².** Saint Peter's College¹ and Southern Arkansas University²—Forest stands and development in disjunct mesic habitats in southwest Arkansas.

9:00 16 **CONNER, WILLIAM H.¹, KEN W. KRAUSS² AND THOMAS W. DOYLE².** Clemson University¹ and U.S. Geological Survey²—Ecology of tidal freshwater forests in coastal deltaic Louisiana and northeastern South Carolina.

9:15 17 **WICHMANN, BRENDA¹, THOMAS R. WENTWORTH¹, ROBERT K. PEET² AND MARJORIE BOYER.** North Carolina State University¹ and University of North Carolina-Chapel Hill²—Unique non-alluvial wetlands of the southern Appalachian region.

9:30 18 **GRIFFITH, ADAM, KATHY MATHEWS AND ROB YOUNG.** Western Carolina University—Soil characterization for river cane (*Arundinaria gigantea* (Walter) Muhl.) restoration in Western North Carolina.

9:45 19 **LEE, MELISSA, MACIE J. BIERNACKI AND KARLA GAGE.** University of Memphis—Heat accumulation in plants.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30 20 **DUBERSTEIN, JAMIE.** Baruch Institute of Coastal Ecology and Forest Science—Importance of microtopography in freshwater tidal swamps along the Savannah River.

10:45 21 **WYATT, JULIE L.** Wake Forest University—Limiting similarity among coexisting early spring herbaceous species with logging history in Southern Appalachian cove forests.

11:00 22 **HANCOCK, THOMAS E. AND WILLIAM K. SMITH.** Wake Forest University—Strategies for maximizing water use efficiency of species from different functional groups in the North Carolina beach environment.

11:15 23 **ROBERSON, CAROL JANE¹, HEATHER STEWART¹, SARAH CROSBY¹, KARTIKEYA SINGH¹, KELLY WILSON¹, SOLIMAR MARRERO², EVA DÁVILA² AND JOE POLLARD¹.** Furman University¹ and Universidad Metropolitana, Puerto Rico²—Seasonal changes in nickel concentration of soil and stream water in three forests on ultramafic sites in North Carolina and Puerto Rico.

Plant Ecology II
Richland A

Presiding: James O. Luken, Coastal Carolina University

8:45 24 **MICHOT, ALLEN, III¹, CHRISTOPHER A. ADAMS² AND RICCARDO FIORILLO³.** University of West Georgia¹, Shorter College², and University of Louisiana-Monroe³—Seed germination of ecology of common cocklebur, *Xanthium strumarium* (Asteraceae), a weedy species with dimorphic seeds.

9:00 25 **HUGHES, NICOLE M. AND WILLIAM K. SMITH.** Wake Forest University—When are red juvenile leaves mature enough to be green? The coordination of anthocyanin decline with photosynthetic maturity.

9:15 26 **CIRTAINT, MARGARET C., SCOTT B. FRANKLIN AND S. REZA PEZESHKI.** University of Memphis—*Arundinaria gigantea* light level response - field and laboratory studies.

9:30 27 **WELCH, NICOLE TURRILL¹ AND DWAYNE E. COLEMAN².** Middle Tennessee State University¹ and Lake Mead National Recreation Area²—Factors influencing *Pinus pungens* regeneration on Green Mountain, Cosby, Tennessee.

9:45 28 **LETT, CARLY AND LAURA E. DEWALD.** Western Carolina University—Influence of mycorrhizal fungi on *Celastrus orbiculatus*.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30 29 **HUDSON, SHARON, ZHIJUN LU, AND SCOTT FRANKLIN.** University of Memphis—Is stolon connection disadvantageous to clonal growth of *Cynodon dactylon* under homogeneous environments?

10:45 30 **DUVAL, WILLIAM L. AND REBECCA R. SHARITZ** University of Georgia—Clonal integration and disturbance in a woody shrub.

11:00 31 **LUKEN, JAMES O.** Coastal Carolina University—Performance of *Dionaea muscipula* as influenced by developing vegetation.

11:15 32 **PERKINS, FERN S., HOWARD S. NEUFELD, MELANY C. FISK AND JOHN F. WALKER.** Appalachian State University—Increased nitrogen deposition and the green alga lichen *Umbilicaria mammulata*: too much of a good thing?

Plant Systematics I
Richland B

Presiding: Conley K. McMullen, James Madison University

8:30 33 **MCMULLEN, CONLEY K.¹, KRISTEN E. BAIRD², MICHAEL S. WOOLF¹ AND ANDREA WEEKS².** James Madison University¹ and George Mason University²—Update on a taxonomic revision of the endemic members of *Cordia* (Boraginaceae) in the Galápagos Islands.

8:45 34 **SHAW, JOEY¹ AND RANDALL L. SMALL².** The University of Tennessee-Chattanooga¹ and The University of Tennessee-Knoxville²—Hybridization, lineage sorting, and the problem of inferring phylogenies among closely related species.

9:00 35 **GILLESPIE, EMILY L., CATHERINE M. BUSH AND KATHLEEN A. KRON.** Wake Forest University—Phylogenetic relationships among major clades of Ericoideae (Ericaceae) based on multiple molecular markers.

9:15 36 **BUSH, CATHERINE AND KATHLEEN KRON.** Wake Forest University—The phylogeny, morphology and biogeography of the wintergreen group (Gaultherieae; Vaccinioideae; Ericaceae; Ericales).

9:30 37 **ROBERTS, ROLAND P., PIERRE G. DAZÉ, HELEN NAYLOR AND DANIEL SARVAIDEO.** Towson University—Unraveling evolutionary relationships within subtribe Solidagininae: two genomes, multiple genes, phylogenetic signal and incongruence.

9:45 38 **VALENTE, MATTHEW J.** University of Tennessee-Knoxville—Clonality and patterns of genetic diversity revealed by AFLPs in *Schisandra glabra* (Brickell) Rheder (Schisandraceae), a threatened woody vine.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30 39 **ROLLINS, DOLLIE L.¹, CATHERINE M. BUSH² AND GERALD L. SMITH¹.** High Point University¹ and Wake Forest University²—A cladistic analysis of the southeastern U.S. species of *Hymenocallis*.

10:45 40 **VANDERVORT-SNEED, JOY AND ZACK MURRELL.** Appalachian State University—Molecular differences used to support morphologically and ecologically delineated species boundaries of two imperiled wild gingers (*Asarum contracta* and *Asarum rhombiformis*).

11:00 41 **NIEDENBERGER, BRYAN A.¹ GERALD L. SMITH² AND RAYMOND O. FLAGG³.** Appalachian State University¹, High Point University² and Carolina Biological Supply Company³—Taxonomic intrigue in the copper rain-lily complex.

11:15 42 **SCHUSTER, TANJA M. AND KATHLEEN A. KRON.** Wake Forest University—Diversification of *Erica* L. (Ericaceae) in South Africa's Cape Province.

11:30 43 **WEEKS, ANDREA.** George Mason University—Phylogenetic systematics and historical biogeography of southern African *Commiphora*.

Genetics, Cellular and Molecular Biology I
Richland C

Presiding: Johannes W. Stratmann, University of South Carolina-Columbia

9:00 44 **PHILLIPS, CHARLES AND MARGARET KOVACH.** The University of Tennessee-Chattanooga—Correlation of genomic instability and the methylation status of CpG islands in colorectal cancer

9:15 45 **BUCHER, ASHLEY, JACOB BRAY AND ZAFER HATAHET.** Northwestern State University—Base excision repair genes in *E. coli* regulated by the ArcAB two component signal transduction system.

9:30 46 **TALLEY, JENNELL M., MARGARET H. PLATTS AND KATHERINE L. FRIEDMAN.** Vanderbilt University—Using partial proteolysis to investigate structural domains within Est3p.

9:45 47 **DOZIER, UVETTA AND HEMAYET ULLAH.** Howard University—Isolation of receptor for activated C kinase interacting proteins in *Arabidopsis thaliana* using the split ubiquitin assay.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30 48 **HIGGINS, REBECCA C. AND ROOPA YALAMANCHILI.** University of South Carolina-Columbia—Characterization of MAP kinase kinases involved in stress signaling in tomato.

10:45 49 **WOODBINE, KARLENE¹ AND ANDY TAGGART².** Guilford College¹ and Merck & Co. Inc.²—Generation of specific antibody targeting the niacin receptor.

11:00 50 **AGUIRRE, KAREN^{1,2}, CHRISTINE WARD¹ AND SHERRY PITTMAN¹.** Coastal Carolina University¹ and Trudeau Institute²—Pathogen-specific CD8⁺ T cells secrete IFN- γ to activate brain-derived macrophages to produce pro-inflammatory cytokines IL6 and MIP-1 β .

Animal Ecology I
Congaree A & B

Presiding: Ray S. Williams, Appalachian State University

8:30 51 **OWENS, KATHLEEN M.¹ AND CHRISTOPHER B. MOWRY².** University of Tennessee-Chattanooga¹ and Berry College²—Seasonal dietary composition of the eastern coyote (*Canis latrans*) in northwestern Georgia.

8:45 52 **PORTER, S. ¹, T. REDDING¹, B. MILLER¹, M. ROWE¹, M. SCHAU¹ AND B. DONALDSON².** Virginia Wesleyan College¹ and Virginia Department of Transportation²—Use of a designed highway undercrossing by wildlife.

9:00 53 **MARBERT, BRYAN S. AND RAY S. WILLIAMS.** Appalachian State University—Long-term precipitation alteration affects ground beetle (Family Carabidae) community structure in an intact hardwood forest.

9:15 54 **WELLS, CARRIE N., MARGARET D. HARRIS, JOHN QUATTROCCHI AND DAVID TONKYN.** Clemson University.—Does climate drive range changes in the Diana Fritillary?

9:30 55 **VILLALPANDO, SHAWN AND RAY S. WILLIAMS.** Appalachian State University—Elevated temperature affects insect community composition in an old-field ecosystem exposed to simultaneous climate change factors.

9:45 56 **JONES, SIERRA J. AND DAVID S. WETHEY.** University of South Carolina-Columbia—Too hot to handle: experiments comparing the historic and present occurrence of *Mytilus edulis* at their southern limits.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30 57 **BRANNOCK, PAMELA M., DAVID S. WETHEY AND THOMAS J. HILBISH.** University of South Carolina-Columbia—Monitoring the spread of a worldwide invader: the distribution of native and invading mussels in northern Japan.

10:45 58 **WILLIAMS, RAY S.** Appalachian State University—Will plants compensate for leaf loss in a future high [CO₂] world?- a field test.

11:00 59 **CAMPBELL, ASHLEY¹ AND JOHN CLAYDON².** Guilford College¹ and School for Field Studies²—Habitat preference of Nassau Grouper, *Epinephelus striatus*, around South Caicos, Turks and Caicos Islands.

11:15 60 **ALEXANDER, JEREMIAH R.¹, STEPHEN C. RICHTER¹, STEVEN J. PRICE² AND MICHAEL E. DORCAS².** Eastern Kentucky University¹ and Davidson College²—Effects of urbanization and habitat fragmentation on spotted salamander (*Ambystoma maculatum*) populations.

11:30 61 **BLUE, JARROD¹, ELIZABETH J. BREWER¹, CHRISTOPHER CASTILLO¹, JUSTIN GOLDBERG¹, KATHERINE HAWKINS², TYLER KRENTZ AND CHRISTOPHER J. PARADISE¹.** Davidson College¹ and Middlebury College²—Colonization and community dynamics in a simulated treehole metacommunity.

THURSDAY APRIL 19, 2007

AFTERNOON SESSION

Symposium II —A Symposium in Honor of Albert E. Radford (1918-2006): Contributions to Southeastern Botany, floristics, Ecology, and Conservation.

Ballroom A

Presiding: Alan S. Weakley, University of North Carolina-Chapel Hill

1:30 62 **WEAKLEY, ALAN S.** University of North Carolina-Chapel Hill—A remembrance of Albert E. Radford (1918-2006).

1:45 63 **MCMILLAN, PATRICK D.** Clemson University—A revision of the *Rhynchospora globularis* species group.

2:00 64 **MATHEWS, KATHERINE G.** Western Carolina University—Systematics and biogeography of *Sabatia* (Gentianaceae).

2:15 65 **SORRIE, BRUCE A.** University of North Carolina-Chapel Hill and North Carolina Natural Heritage Program—Identification, distribution, and habitat of needle-leaved species of *Hypericum* (Hypericaceae).

2:30 66 **ALLISON, JAMES R.** Rutledge, Georgia—*Hypericum radfordiorum* sp. nov., an endemic species of the Brushy Mountains of North Carolina.

2:45 67 **WEAKLEY, ALAN S.** University of North Carolina-Chapel Hill—A new flora for the Carolinas, Virginia, Georgia, and adjacent areas.

3:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

3:30 68 **LUDWIG, J. CHRISTOPHER, ALAN S. WEAKLEY AND JOHN F. TOWNSEND.** The *Flora of Virginia* Project—A new flora for the Old Dominion: a progress report.

3:45 69 **MURRELL, ZACK E. AND DERICK POINDEXTER.** Appalachian State University—The role of cyberinfrastructure in conservation and biogeography in the Southeast.

4:00 70 **PEET, ROBERT K., ALAN S. WEAKLEY AND XIANHUA LIU.** University of North Carolina-Chapel Hill—A floristic atlas for the Southeast that uses taxon concept relationships to integrate distribution data.

4:15 71 **WARE¹, DONNA M. E. AND GARY P. FLEMING².** College of William and Mary¹ and Virginia Department of Conservation and Recreation²—Soil calcium and pH and distribution patterns of mountain plants disjunct to the Coastal Plain in Virginia.

4:30 72 **GADDY, L. L.** *terra incognita*—The status of pond cypress (*Taxodium ascendens*)-dominated wetlands associated with Canby's dropwort (*Oxypolis canbyi*) in North Carolina, South Carolina, and Georgia.

Plant Biology II
Lexington A

Presiding: Howard S. Neufeld, Appalachian State University

1:30 73 **BOLIN¹, JAY F., KUSHAN U. TENNAKOON² AND LYTTON J. MUSSELMAN¹.** Old Dominion University¹ and University of Peradeniya, Sri Lanka²—Stable isotope and nutrient relationships in the root holoparasite *Hydnora* (Hydnoraceae).

1:45 74 **DUNKERLEY, RACHEL AND MIJITABA HAMISSOU.** Jacksonville State University—Investigating the effects of cadmium toxicity on the

photosynthetic performance and anti-oxidative stress responses of chloroplasts in *Arabidopsis thaliana* and *Sorghum bicolor* plants.

2:00 75 **REIGHARD, KENNY, CASIE SANDERS AND MIJITABA HAMISSOU.** Jacksonville State University—UVA and UVB may induce synergic oxidative stress responses to *Arabidopsis thaliana* plants and to callus tissues.

2:15 76 **HYULER, ANN¹, HOWARD S. NEUFELD¹ AND KENT O. BURKEY².** Appalachian State University¹ and USDA-ARS Plant Science Research Unit²—The effects of acute or chronic ozone exposure on the antioxidant content of tulip poplar, *Liriodendron tulipifera*.

2:30 77 **SCHROEDER, RACHEL E.^{1,2} AND GARY J. WHITING².** Old Dominion University¹ and Christopher Newport University²—The effect of elevated CO₂ on CH₄ emission from an emergent wetland plant.

2:45 78 **HERR, J. M., JR.** University of South Carolina—The geometry of developmental stages of the female gametophyte in some angiosperms and its relationship to the derivation of phi (Φ) in the Fibonacci summation series.

3:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

3:30 79 **HAMISSOU, MIJITABA.** Jacksonville State University—Can plant tissue technology be used as an approach to studying aluminum toxicity at the whole plant level.

3:45 80 **STALTER, RICHARD, MICHELE CERAMI AND MO CHOO.** St. John's University—Forty years of community development in a gamma irradiated pine-oak forest Brookhaven National Laboratory.

4:00 81 **HERR, J. M., JR.** University of South Carolina-Columbia—A brief sketch of the life and work of A. C. Moore: First to apply the term, "meiosis" to the reduction divisions.

Plant Systematics II
Lexington B

Presiding: Gerald W. Long, Francis Marion University

2:00 82 **ESTES, DWAYNE.** University of Tennessee—The endemic vascular flora of the Interior Low Plateaus physiographic province, U.S.A.

2:15 83 **HORN, CHARLES N.** Newberry College—A floristic survey of Lynch's Woods Park, Newberry County, South Carolina.

2:30 84 **DEGARADY, COLETTE¹, J. FURMAN LONG¹ AND JOHN B. NELSON².** The Nature Conservancy¹ and University of South Carolina-Columbia²—Vascular plants and landscape inventory of Sandy Island, Georgetown County, South Carolina.

2:45 85 **DARR, ANN R.¹, ALBERT B. PITTMAN² AND KATHERINE A. BOYLE².** University of South Carolina-Columbia¹ and South Carolina

Heritage Trust Program²—Botanical Survey of Brittons Neck Woodbury Tract, Marion County, South Carolina.

3:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

3:30 86 **BARGER, T. WAYNE¹ AND DAN TENAGLIA.** State Lands Division, ALDCNR¹—Vascular flora of Coon Creek Forever Wild Tract, Tallapoosa County, AL.

3:45 87 **CLARK, ROSS C.** Eastern Kentucky University—The science of floristics.

4:00 88 **CLARK, ROSS C. AND TIMOTHY J. WECKMAN.** Eastern Kentucky University—Distribution patterns of Kentucky woody plants.

4:15 89 **AL-ZEIN, MOHAMMAD S.** Old Dominion University—The Other André Michaux: His Persian Journey (1782 – 1785).

4:30 90 **NELSON, JOHN B.¹ AND ALAN S. WEAKLEY².** University of South Carolina-Columbia¹ and University of North Carolina-Chapel Hill²—Botanical collaborations between Henry W. Ravenel and Moses Ashley Curtis, 1846-1872.

Plant Ecology III
Richland A

Presiding: Claudia L. Jolls, East Carolina University

1:30 91 **MARCINKO, SARAH E.¹ AND JOHN L. RANDALL².** University of North Carolina at Chapel Hill¹ and the North Carolina Botanical Garden²—Conservation implications of breeding systems, floral phenology and sexual expression in the federally endangered *Ptilimnium nodosum* (Apiaceae).

1:45 92 **JOLLS, CLAUDIA L. AND JULIE E. MARIK.** East Carolina University—Much from few: uncommon plants and common paradigms.

2:00 93 **MARIK, JULIE E.¹, CLAUDIA L. JOLLS¹ AND SAMARA I. HAMZÉ^{1, 2}.** East Carolina University¹ and University of Wisconsin-Oshkosh²—Population viability analysis of a rare, monocarpic, Great Lakes perennial, *Cirsium pitcheri*, (Asteraceae).

2:15 94 **BELOTE, R. TRAVIS¹, ROBERT H. JONES¹, SHARON M. HOOD^{1,2} AND BRYAN WENDER^{1,3}.** Virginia Tech¹, US Forest Service² and Virginia Natural Heritage Program³—Diversity-invasibility relationships not a paradox in harvested Appalachian oak forests: the rich get richer following disturbance.

2:30 95 **CORBYONS, CAROLYN AND DAVID VANDERMAST.** Elon University—Biotic resistance to invasion across spatial scales: does evidence from North Carolina Piedmont forests support theory?

2:45 96 **EXTINE, JENNIFER L. AND LAURA E. DEWALD.** Western Carolina University—Golf courses and their ability to provide landscape connectivity in western North Carolina.

3:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

3:30 97 **PINDER, JOHN E., III, J. JASON MOROVITZ AND GLENN C. KROH.** Texas Christian University—Transition from pine to hardwood forests in southeastern Texas: An intended long-term study.

3:45 98 **OSWALT, CHRISTOPHER M. AND JEFFEREY A. TURNER.** USDA Forest Service, Southern Research Station—Common tree species shifts in relative stocking for Kentucky from 1975 to 2004.

4:00 99 **SCARBOROUGH, ANGELA R. AND HAROLD W. KELLER.** University of Central Missouri—Species assemblages of tree canopy myxomycetes related to environmental bark pH and experimental laboratory pH protocols.

4:15 100 **STOVER, DANIEL B.¹, FRANK P. DAY¹, JOHN R. BUTNOR², C. ROSS HINKLE³ AND BERT G. DRAKE⁴.** Old Dominion University¹, U.S. Forest Service², Dynamac Corporation³ and Smithsonian Environmental Research Center⁴—The effects of elevated atmospheric CO₂ on fine and coarse root growth and biomass allocation in a scrub-oak ecosystem at Kennedy Space Center, Florida.

4:30 101 **PEDERSON, NEIL¹, EDWARD COOK², GORDON JACOBY², CHRISTINE LATTIN¹ AND H. MYVONWYNN HOPTON.** Eastern Kentucky University¹ and Columbia University²—The influence of age and geographic location on the climatic sensitivity and growth rates of southern temperate tree species.

Genetics, Cellular and Molecular Biology II
Richland B

Presiding: Dwayne A. Wise, Mississippi State University

2:00 102 **ANDREWS, BETHANY AND MARGARET KOVACH.** The University of Tennessee at Chattanooga—The effects of PMP22 on gene expression throughout development.

2:15 103 **MURDOCK, CHRISTOPHER A.¹, BRIAN C. SMALL² AND GEOFFREY C. WALDBIESER².** Jacksonville State University¹ and USDA-ARS Catfish Genetics Research Unit²—Expression of two SF1 isoforms in response to exogenous GnRH injections in channel catfish *Ictalurus punctatus*.

2:30 104 **LEMOINE, FRANCENE J.** Northwestern State University of Louisiana—*Saccharomyces cerevisiae* as a model for mammalian chromosome fragile site studies.

2:45 105 **CHAMBERS, MELISSA G. AND DWAYNE A. WISE.** Mississippi State University—A non microtubule-based spindle matrix in eukaryotic cell division.

3:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

3:30 106 **JOHNSON, MARY AND DWAYNE WISE.** Mississippi State University—The metaphase checkpoint in cells undergoing mitosis without chromosome duplication.

3:45 107 **HOLLINGSWORTH, T.J.¹, LESLIE PICK² AND HUA ZHANG².** Jacksonville State University¹ and University of Maryland²—Over-eating in larvae due to over-expression of genes in *Drosophila melanogaster*.

4:00 108 **GARCIA, VERONICA¹ AND PETER A.V. ANDERSON².** Guilford College¹ and The Whitney Laboratory for Marine Bioscience²—The search for TRPN in *Cyanea capillata* and *Nematostella vectensis*.

4:15 109 **DIEHL, WALTER J.** Mississippi State University—Phylogenetic patterns of natural selection and gene function reveal selective sweeps in the Mycoplasmatales bacteria.

Ichthyology
Richland C

Presiding: Neil Billington, Troy University

2:00 110 **BILLINGTON, NEIL¹, RACHAEL N. KOIGI¹, RYAN P. FRANCKOWIAK², BRIAN L. SLOSS², JINGYUAN XIONG¹ AND WILLIAM GARDNER³.** Troy University¹, University of Wisconsin-Stevens Point² and Montana Department of Fish, Wildlife and Parks³—Population genetic structure of sauger in the upper Missouri River system.

2:15 111 **BARR, AMY, RACHAEL N. KOIGI, JANET GASTON, RONALD E. CREECH, AND NEIL BILLINGTON.** Troy University—Hybridization between walleye and sauger determined by protein electrophoresis.

2:30 112 **WELSH, STUART A.¹ AND DAN A. CINCOTTA².** U.S. Geological Survey¹ and West Virginia Division of Natural Resources²—Conservation status and population extirpations of *Etheostoma osburni* (candy darter) in West Virginia.

2:45 113 **ROBERTS, MATT E.¹, CAROLYN S. SCHWEDLER² AND CHRISTOPHER M. TAYLOR³.** Mississippi State University¹ and Michigan State University²—Dietary shifts in the crystal darter (*Crystallaria asprella*) after large-scale river fragmentation.

3:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

3:30 114 **MILLICAN, DANIEL S.** Mississippi State University—Variably scaled environmental influences associated with fish assemblage patterns in the Tombigbee River System following mainstem impoundment.

3:45 115 **HOLDER, DERRICK S. AND STEVEN L. POWERS.** Reinhardt College—Life History of the Rainbow Shiner, *Notropis chrosomus* (Teleostei: Cyprinidae) in Northern Georgia.

**Teaching Biology
Congaree A & B**

Presiding: Briana Timmerman, University of South Carolina-Columbia

1:30 116 **TIMMERMAN, BRIANA.** University of South Carolina-Columbia—Development of a universal lab rubric for assessing students' science inquiry skills.

1:45 117 **CARSTENSEN, SUSAN.** University of South Carolina-Columbia—Internet hoaxes as a way to improve scientific judgment and critical thinking.

2:00 118 **SCHAUS, M., E. MALCOLM AND M. REESE.** Virginia Wesleyan College—Use of green roof research in science and statistics courses.

2:15 119 **STOCKS, STEPHANIE D.** Clemson University—Turning your classroom into a butterfly house—tips on raising Painted Ladies (*Vanessa cardui*) for classroom studies.

2:30 120 **MICKLE, JAMES E.¹, MARIA ROSARIA BARONE LUMAGA², PAOLO DE LUCA² AND FULVIA IOVINE².** North Carolina State University¹ and Università degli Studi di Napoli "Federico II"²—Development of a new display on the evolution of the carpel and the stamen at the Museum of Paleobotany and Ethnobotany, Botanical Gardens, University of Naples, Italy.

2:45 121 **BLAIR, BENJIE.** Jacksonville State University—"Poor man's cryo" a simple method of teaching electron microscopy to undergraduates.

3:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

3:30 122 **HANMER, DEBORAH¹, SCOTT COOPER² AND BILL CERBIN².** University of North Carolina at Pembroke¹ and University of Wisconsin - LaCrosse²—Enhancing student understanding of phylogenetic trees through problem-solving modules.

3:45 123 **TIMMERMAN, BRIANA, DENISE STRICKLAND AND SUSAN CARSTENSEN.** University of South Carolina-Columbia—Facilitating the understanding of evolution in an introductory undergraduate laboratory experience: Exploring the impact of an inquiry-based module.

4:00 124 **ALIFF, JOHN V.** Georgia Perimeter College —Two approaches to common misunderstandings of science: A survey of student opinion.

4:15 125 **DAVIS, JENNIFER AND JILL BORCHERT.** Shorter College—A new approach for undergraduates preparing for health science and counseling careers.

FRIDAY APRIL 20, 2007

MORNING SESSION

Microbiology I
Lexington A

Presiding: Min-Ken Liao, Furman University

8:30 126 **WARNER, CHARLENE A. AND MIN-KEN LIAO.** Furman University—Structure and function of proline permease in *Salmonella enterica* serovar Typhimurium.

8:45 127 **AMIS, JACQUELINE E.¹, MARLENA WESTCOTT² AND ELIZABETH M. HILTBOLD².** Guilford College¹ and Wake Forest University²—Characterization of *Listeria monocytogenes*-containing phagosomes in dendritic cells.

9:00 128 **BARGER, KATIE, LAURA CECERE AND HENRY SPRATT.** University of Tennessee-Chattanooga—Development of a bacterial battery for the generation of electric current from the mineralization of organic matter in sewage.

9:15 129 **DUDLEY, BREANNA¹ AND BRADLEY RINGEISEN².** Bowie State University¹ and Naval Research Laboratory²—Miniature microbial fuel cell using alternative fuels and electrode materials.

9:30 130 **JONES, NICORY, INIGO HOWLETT, RYAN MILLER, OLIN IVEY AND HENRY SPRATT.** University of Tennessee-Chattanooga—Bacterial sulfate reduction in surface soils from the former Volunteer Army Ammunition Plant near Chattanooga, Tennessee.

9:45 131 **HOWLETT, INIGO, RYAN MILLER, NICORY JONES, OLIN IVEY AND HENRY SPRATT.** University of Tennessee-Chattanooga—Effect of habitat type on lignocellulose mineralization in surface soils from the former Volunteer Army Ammunition Plant near Chattanooga, Tennessee.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**10:30—11:30 **ASB Business Meeting**Herpetology I
Lexington B

Presiding: Roland P. Roberts, Towson University

8:45 132 **PRICE, STEVEN J. AND MICHAEL E. DORCAS.** Davidson College—Do land-use legacies affect contemporary abundance patterns of semi-aquatic reptiles and amphibians?

9:00 133 **ADAMS, JENNIFER P.¹ AND THOMAS K. PAULEY².** Salem International University¹ and Marshall University²—Home range and

behavior of *Crotalus horridus* in high elevation production forests, Randolph County, West Virginia.

9:15 134 **MORRIS, TIMOTHY A. AND ROLAND P. ROBERTS.** Towson University—Validating locality claims of green tree pythons (*Morelia viridis*) using microsatellites: Implications for the captive market and conservation of the species.

9:30 135 **STACY, JODI AND PAUL V. CUPP, JR.** Eastern Kentucky University—An evaluation of artificial cover objects in monitoring *Plethodon glutinosus* and *Plethodon richmondi*.

9:45 136 **GRAHAM, MATTHEW R.¹, WILLIAM D. FLINT², A. ALLISON HOGSETT¹ AND THOMAS K. PAULEY¹.** Marshall University¹ and James Madison University²—Phylogeography, distribution, and conservation unit designation of the Cow Knob Salamander (*Plethodon punctatus* Highton).

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30—11:30 **ASB Business Meeting**

11:30 137 **FARR, JONATHAN AND ALVIN DIAMOND.** Troy University—Species richness and diversity of treefrogs in Lillian Swamp, Baldwin County, Alabama.

11:45 138 **BEAMER, DAVID A. AND TRIP LAMB.** East Carolina University—A case for parallelism among dwarf salamanders in the *Eurycea quadrivittata* complex.

12:00 139 **ESQUIVEL, JORGE L., ROBERT WAYNE VAN DEVENDER, SHEA TUBERTY AND JOHN WALKER.** Appalachian State University—Chytrids vs. Amphibians: Emerging disease or history of natural selection?

Plant Ecology IV
Richland A

Presiding: Gary L. Walker, Appalachian State University

8:30 140 **ZOELLNER, DANIELLE C. AND KEVIN S. GODWIN.** Coastal Carolina University—Analysis of local and landscape level factors influencing development of three community types within Carolina bays in northeastern South Carolina.

8:45 141 **MCMILLAN, BRETT A. AND FRANK P. DAY.** Old Dominion University—Spatial analyses of plant assemblages and microhabitats on the pimple dunes of Virginia's barrier islands.

9:00 142 **STRAHL, MAYA¹, NICOLE SOPER GORDON², MARTIN CIPOLLINI¹, PATRICIA TOMLINSON¹ AND RICHARD WARE³.** Berry College¹, Gustavus Adolphus College² and Georgia Botanical Society³—Vegetative survey of Martha's Meadow, an open limestone glade habitat in northwestern Georgia.

9:15 143 **ELAM, CAITLIN E., JON M. STUCKY, THOMAS R. WENTWORTH AND JAMES D. GREGORY.** North Carolina State University—A floristic inventory of Cool Springs Environmental Center, New Bern, North Carolina.

9:30 144 **MATTHEWS, ELIZABETH R.¹, ROBERT K. PEET¹, ALAN S. WEAKLEY¹ AND THOMAS R. WENTWORTH².** University of North Carolina-Chapel Hill¹ and North Carolina State University²—Alluvial plant communities of Piedmont brown-water rivers.

9:45 145 **KROH, GLENN C., KERI MCNEW AND JOHN E. PINDER III.** Texas Christian University—Conifer colonization of a rock fall surface in the Cascade Range of northern California.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30—11:30 **ASB Business Meeting**

11:30 146 **BALLINGER, DAVID AND GARY L. WALKER.** Appalachian State University—A vegetational survey of an unclimbed cliff system at White Rocks, Cumberland Gap National Historic Park.

11:45 147 **BARONE, JOHN¹ AND JOVONN HILL².** Columbus State University¹ and Mississippi State University²—Plant community composition and structure of remnant blackland prairies in Mississippi and Alabama.

12:00 148 **PARAJULI, SHANTA,¹ YONG WANG¹, WUBISHEH TADESSE¹, CALLIE SCHWEITER² AND GLENDON SMALLEY².** Alabama A&M University¹ and USDA Forest Service, Southern Research Station²—A preliminary analysis of the results of forest land classification using isoculstering techniques.

12:15 149 **WENTWORTH, THOMAS¹, ROBERT PEET², ALAN WEAKLEY², MICHAEL LEE², FORBES BOYLE², STEVEN ROBERTS³ AND MICHAEL SCHAFALE⁴.** North Carolina State University¹, University of North Carolina-Chapel Hill², North Carolina Ecosystem Enhancement Program³ and North Carolina Natural Heritage Program⁴—Application of community ordination to assessment and monitoring of ecosystem condition in restoration ecology.

Animal Ecology II
Richland B

Presiding: J. Whitfield Gibbons, University of Georgia

8:30 150 **WILLSON¹, JOHN D., CHRISTOPHER T. WINNE¹, MELISSA A. PILGRIM^{1,2}, CHRISTOPHER S. ROMANEK¹ AND J. WHITFIELD GIBBONS¹.** University of Georgia¹ and University of South Carolina- Upstate²—Effects of terrestrial resource pulses on trophic niche overlap between two sympatric aquatic snake species: a stable isotope approach.

8:45 151 **PILGRIM^{1,2}, MELISSA A., CHRISTOPHER T. WINNE¹, JOHN D. WILLSON¹, CHRISTOPHER S. ROMANEK¹ AND J. WHITFIELD GIBBONS¹.** Savannah River Ecology Laboratory¹ and University of South Carolina Upstate²— Expression of maternal isotopes in offspring: implications for interpreting ontogenetic shifts in isotopic composition of consumer tissues.

9:00 152 **GREENBERG¹, CATHRYN H.¹, STANLEE MILLER² AND THOMAS WALDROP¹,** USDA Forest Service, Southern Research Station¹ and Clemson University²—Effect of fuel reduction treatments on soricid communities in a southern Appalachian upland hardwood forest.

9:15 153 **O'KELLEY JEFFREY¹ AND MARK MEADE².** Jacksonville State University—A three year Ichthyofaunal Survey of Choctawhatchee, Shoal and Scarborough Streams in the Talladega National Forest

9:30 154 **RAE, JOHN G.** Francis Marion University—Habitat selection by benthic meiofauna in the Lynches River, South Carolina.

9:45 155 **MCCALL, AMANDA F.¹, PAUL M. STEWART¹ AND THOMAS P. SIMON².** Troy University¹ and Indiana Biological Survey²—Life history of the crayfish, *Procambarus suttkusi*.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30—11:30 **ASB Business Meeting**

11:30 156 **CECALA, KRISTEN K., STEVEN J. PRICE AND MICHAEL E. DORCAS.** Davidson College—Interspecific interactions among stream salamanders: Integrating laboratory and field studies

11:45 157 **MCCALL, AMANDA F.¹, PAUL M. STEWART¹ AND THOMAS P. SIMON².** Troy University¹ and Indiana Biological Survey²—Aggressive interactions among Form I and Form II males of the crayfish, *Procambarus suttkusi*.

12:00 158 **TODD, BRIAN D. AND ANDREW K. DAVIS.** University of Georgia—Sexual dimorphism in coloration of the marbled salamander, *Ambystoma opacum*, with correlations to body size and condition.

12:15 159 **BROWN, CHRISTOPHER G. AND DANIEL J. FUNK.** Vanderbilt University—Do trichome-covered fecal cases protect *Neochlamisus* leaf beetle larvae (Coleoptera: Chrysomelidae) from arthropod predators? A test of multiple mechanisms using *N. platani*.

Aquatic, Wetland and Marine Management I
Richland C

Presiding: Daniel L. Tufford, University of South Carolina-Columbia

9:00 160 **CIAK, CATHERINE E., ROBERT U. FISCHER, CHARLES L. PEDERSON AND JAMES M. NOVAK.** Eastern Illinois University—Extreme flow events affect benthic macroinvertebrate assemblages in the Sangamon River, Decatur, IL.

9:15 161 **GERBER, JAY P., CHARLES L. PEDERSON AND ROBERT U. FISCHER.** Eastern Illinois University—Impacts of reservoir and sanitary district discharges on stream community metabolism.

9:30 162 **OGASAWARA, MASAMICHI.** Clemson University—Spatial analysis of herbaceous vegetation in South Carolina tidally influenced freshwater forested wetlands.

9:45 163 **TUFFORD, DANIEL L.¹, STEPHEN H. BENNETT² AND JOHN B. NELSON¹.** University of South Carolina-Columbia¹ and South Carolina Department of Natural Resources²—A Descriptive Ecology of Seepage Wetlands on the South Carolina Coastal Plain.

10:00 **COFFEE BREAK: VISIT EXHIBITS AND POSTERS**

10:30—11:30 **ASB Business Meeting**

11:30 164 **WITMER, PATRICK L.¹, CHRISTOPHER K. METCALF² AND PAUL M. STEWART¹.** Troy University¹ and U.S. Fish and Wildlife Service²—Indexing unpaved road stream crossing conditions in the Choctawhatchee watershed: pre-implementation risk rankings.

11:45 165 **RASMUSSEN, JESSICA AND CHARLES L. PEDERSON.** Eastern Illinois University—A lake and reservoir index of biotic integrity: using phytoplankton assemblages for bioassessment.

12:00 166 **DIMICK, BRITTA, JANE AWL AND PATRICIA COX.** Tennessee Valley Authority—Key to globally rare wetland communities In the Tennessee Valley region.

Invertebrate Zoology and Entomology I
Congaree A & B

Presiding: Frank A. Romano, III, Jacksonville State University

9:00 167 **DAFOE, ROBERT C. AND FRANK A. ROMANO, III.** Jacksonville State University—A seasonal and transect survey of leaf litter tardigrade communities from a Gulf of Mexico barrier island (Dauphin Island, Alabama).

9:15 168 **ROMANO¹, FRANK A., III, MARIA GALLO², ROSSANA D'ADDABBO² AND PAUL MONTAGNA³.** Jacksonville State University¹, University of Bari², Bari, Italy, and Texas A&M University-Corpus Christi³—A first look at deep-sea tardigrades in the northern Gulf of Mexico.

9:30 169 **MILNE, MARC A, NORMAN A GREFE, III AND DEBORAH A WALLER.** Old Dominion University—Survivorship of the “Asian-tiger” mosquito (*Aedes albopictus*) in the purple pitcher plant (*Sarracenia purpurea*): more evidence of invasive mutualism.

9:45 170 **TOWNSEND, VICTOR R., JR. AND DANIEL N. PROUD.** Virginia Wesleyan College—Additions to the harvestmen fauna of Trinidad, W. I.

10:00

COFFEE BREAK: VISIT EXHIBITS AND POSTERS

10:30—11:30

ASB Business Meeting

11:30 171

PROUD, DANIEL N., PHILIP ROCK AND VICTOR R. TOWNSEND, JR. Virginia Wesleyan College—Investigation of parental care and relationships between individuals within nests of cranaid harvestmen from Trinidad, W.I.

11:45 172

WOLFF, ROBERT. South University and Clemson University—Recovery from disturbance by orb weavers (Araneidae) at Congaree National Park.

12:00 173

THIGPEN, ROBERT C., III AND ROBERT P. CREED. Appalachian State University—Technique for non-lethal stable isotope analysis of Caribbean Spiny Lobster (*Panulirus argus*) and Stone Crab (*Menippe mercenaria*).

FRIDAY APRIL 20, 2007**AFTERNOON SESSION****Symposium III—Status of the Herbarium Cyberinfrastructure in the Southeast****Ballroom A****Presiding: Zack E. Murrell, Appalachian State University**

2:00 174

MURRELL, ZACK E. AND DERICK POINDEXTER. Appalachian State University—SERNEC: a regional network of herbarium curators.

2:10 175

MAST, AUSTIN AND GIL NELSON. Department of Biological Science, Florida State University—The deep south plant specimen imaging project.

2:20 176

HANSEN, CURTIS J.¹ AND DANIEL D. SPAULDING². Auburn University¹ and Anniston Museum of Natural History²—The Alabama Flora Committee: a botanical collaborative.

2:30 177

JOHNSON, GEORGE P.¹ AND JOHNNIE L. GENTRY². Arkansas Tech University¹ and University of Arkansas-Fayetteville²—The Arkansas Vascular Flora Project and the Arkansas Herbarium Network: The flora, the database, and education and outreach programs.

2:40 178

WEEKS, ANDREA. George Mason University—Virginia herbarium and library network.

2:50 179

LONG, GERALD W. Francis Marion University—The Consortium of South Carolina Herbaria.

3:00

COFFEE BREAK: VISIT POSTERS

3:30 180

ZJHRA, MICHELLE L. Georgia Southern University—Georgia Southern University herbarium: Progress and problems.

3:40 181 **JONES, RONALD K¹. AND RALPH L. THOMPSON².** Eastern Kentucky University¹ and Berea College²—Status of Kentucky Herbaria in 2006.

3:50 182 **SASEK, THOMAS W.** University of Louisiana at Monroe—Status of Louisiana herbaria.

4:00 183 **MCCOOK, LUCILE M.** University of Mississippi—State of Mississippi herbaria.

4:10 184 **SHAW, JOEY, RYAN MILLER, AND ANDREW CARROLL.** University of Tennessee at Chattanooga—The development of a real-time, GIS-based interface for geographically displaying information inherent in herbarium data.

4:20 185 **KRINGS, ALEXANDER.** North Carolina State University—State of North Carolina herbaria.

4:30 186 **ROBERTS, ROLAND P¹. AND ROBERT F. C. NACZI².** Towson University¹ and Delaware State University²—Research and teaching using herbarium collections in Maryland and Delaware.

4:40 187 **NESOM, GUY.** Botanical Research Institute of Texas —Status of BRIT, other Texas herbaria, and TORCH.

Plant Systematics III
Lexington A

Presiding: Lytton John Musselman, Old Dominion University

1:30 188 **MUSSELMAN, LYTTON JOHN¹, REBECCA D. BRAY¹ AND W. CARL TAYLOR².** Old Dominion University¹, and National Science Foundation²—The genus *Isoetes* (Lycophyta) in the Southeastern United States.

1:45 189 **GENTRY, JOHNNIE L.¹, GERRY MOORE² AND JAMES MACKLIN³.** University of Arkansas-Fayetteville¹, Brooklyn Botanic Garden² and Harvard University³—The Royal Rubi II: *Rubus pascuus* L.H. Bailey (Rosaceae), a widespread species of *Rubus* sect. *Cuneifolii*.

2:00 190 **ALLISON, JAMES R.** Rutledge, Georgia—The five species of the *Hypericum denticulatum* complex.

2:15 191 **SMITH, GERALD L.¹ AND MARK A. GARLAND².** High Point University¹ and Scientific Latin Translations²—Unusual populations of *Hymenocallis* in the Florida Panhandle.

2:30 192 **GOODWILLIE, CAROL AND BRIAN BURNE.** East Carolina University—The genetic architecture of variation in the timing of self-compatibility in *Leptosiphon jepsonii*.

2:45 193 **FLAGG, RAYMOND O.¹ AND GERALD L. SMITH².** Carolina Biological Supply Company¹ and High Point University²—Nomenclatural problems in Mexican Rain-lilies.

3:00 **COFFEE BREAK: VISIT POSTERS**

3:30 194 **MAST, AUSTIN, FREDRIK RONQUIST, GREG RICCARDI, GREG ERICKSON, CORINNE JÖRGENSEN, PETER JÖRGENSEN, ROBERT VAN ENGELEN, DAVID GAITROS, NEELIMA JAMMINGUMPULA, KATJA SELTMANN, ANDY DEANS, KAROLINA MANEVA-JAKIMOSKA, STEVE WINNER, WILREDO BLANCO, DEBORAH PAUL, CYNTHIA GAITROS, KEN MORIUCHI, JANET CAPPS AND ALBERT PRIETO-MARQUEZ.** Florida State University—MorphBank: An open web repository for biological images

3:45 195 **CHANDLER, GREGORY T.** University of North Carolina Wilmington—Interactive, digital keys: modern electronica or useful diagnostic tools?

4:00 196 **MILLER, RYAN, JOEY SHAW AND ANDREW CARROLL.** University of Tennessee at Chattanooga—The development and GIS applications of a dynamic online herbarium dataset.

4:15 197 **FARMER, SUSAN B. AND EDWARD E. SCHILLING.** University of Tennessee, Knoxville—The importance of vouchering small populations of plants: Lessons learned from the *Pusillum* Complex of *Trillium*.

Herpetology II
Lexington B

Presiding: George Cline, Jacksonville State University

1:30 198 **VIERNUM, SARA E., BENJIE BLAIR AND GEORGE CLINE.** Jacksonville State University—*Aeromonas hydrophila* skin infections in the green salamander, *Aneides aeneus*, from Northeastern Alabama.

1:45 199 **WEBB, CLIFFORD J. AND GEORGE CLINE.** Jacksonville State University—Efficacy of leaf litter refugium bags for sampling adult streamside salamanders (Caudata:Plethodontidae).

2:00 200 **KLUCZNIK, DANIEL J. AND JONATHAN AKIN.** Northwestern State University of Louisiana—Symbiosis Between Algae and *Ambystoma* Salamanders in a Louisiana Vernal Pool.

2:15 201 **BOND, TRISTAN AND THOMAS K. PAULEY.** Marshall University—Distribution and natural history of *Desmognathus welteri*, the Black Mountain Salamander.

2:30 202 **KEITZER, STEVEN AND THOMAS PAULEY.** Marshall University—Potential habitat characteristics affecting the Eastern Hellbender, *Cryptobranchus a. alleganiensis*, in southern West Virginia.

2:45 203 **STEELMAN, CHARLOTTE K. AND MICHAEL E. DORCAS.** Davidson College—The effects of environmental variation and anthropogenic noise on calling activity of Anurans.

3:00 **COFFEE BREAK: VISIT POSTERS**

3:15 204 **POOLE, TYLER AND JONATHAN AKIN.** Northwestern State University of Louisiana—Investigations into the physiology of behavioral interactions in *Scincella lateralis*.

3:30 205 **PEINHARDT, BOBBY AND MEGAN GIBBONS.** Birmingham Southern College—Effects of heritability and diet on morphological and behavioral traits in the green treefrog *Hyla cinerea*.

3:45 206 **WARE, DANIEL F. AND THOMAS K. PAULEY.** Marshall University—The natural history and distribution of the Mountain Earthsnake, *Virginia v. pulchra* in West Virginia.

4:00 207 **CHAN, FLORENCE AND YONG WANG.** Alabama A&M University—Herpetofauna diversity and its habitat and landscape relationships on state conservation lands of the Cumberland Plateau of Northern Alabama.

4:15 208 **CRAVEN, KATHRYN STEPHENSON, MATTHEW RICHARDSON AND LAUREN BROOME.** Armstrong Atlantic State University—Evaluation of egg failure in the loggerhead sea turtle (*Caretta caretta*) on the Georgia coast.

Animal Ecology III
Richland A

Presiding: Robert A. Raguso, University of South Carolina-Columbia

2:00 209 **PITTMAN, SHANNON E., AMORY L. JENDREK, STEVEN J. PRICE AND MICHAEL E. DORCAS.** Davidson College—Spatial and temporal distribution of Cope's Gray Treefrogs (*Hyla chrysoscelis*) within a wetland.

2:15 210 **HARDEN, LEIGH ANNE, STEVEN J. PRICE AND MICHAEL E. DORCAS.** Davidson College—Terrestrial activity of Eastern Mud Turtles (*Kinosternon subrubrum*) on golf courses: an investigation of habitat selection.

2:30 211 **ROGERS, TRACY N. AND DAVID R. CHALCRAFT.** East Carolina University—Facilitation or competition? Hydroperiod may alter interspecific interactions among larval anurans.

2:45 212 **WINNE, CHRISTOPHER T., JOHN D. WILLSON AND J. WHITFIELD GIBBONS.** University of Georgia—Rapid recovery of an aquatic snake community following prolonged drought.

3:00 **COFFEE BREAK: VISIT POSTERS**

3:30 213 **GIBBS, SARAH AND ERIC LINDER.** Mississippi State University—The Impact of greentree reservoir management on the reproductive Ecology of acadian flycatchers at Noxubee National Wildlife Refuge.

3:45 214 **VINDIGNI, MELISSA¹, MATINA KALCOUNIS-RÜPPELL¹ AND DARREN MILLER².** University of North Carolina at Greensboro¹ and Weyerhaeuser Company²—Influence of modified water sources in a managed pine landscape on bat foraging behavior.

4:00 215 **SAUTERER, ROGER.** Jacksonville State University—Exposure of frog embryos to water samples near the Anniston, AL Monsanto plant results in increased mortality and decreased growth.

4:15 216 **WOLFF, ROBERT.** South University and Clemson University—First BioBlitz at Congaree National Park is a SpiderBlitz.

Aquatic, Wetland and Marine Management II
Richland B

Presiding: Harry E. Shealy, Jr., University of South Carolina-Aiken

1:45 217 **ATKINSON, ROBERT B.** Christopher Newport University—Atlantic white cedar tree rings in the Great Dismal Swamp and Alligator River National Wildlife Refuges: Implications for saving an endangered ecosystem.

2:00 218 **GEORGE, ROBERT Y.¹ AND ANDY WOOD².** George Institute for Biodiversity and Sustainability¹ and North Carolina Audubon Society—Threats to the deep water *Lophelia* reefs and migratory birds (swans and geese) in North Carolina coast: Potential EFH and EBH sites.

2:15 219 **DORCAS, MICHAEL E.¹, JOHN D. WILLSON² AND J. WHITFIELD GIBBONS².** Davidson College¹ and Savannah River Ecology Laboratory²—Crab trapping causes population decline and demographic changes in Diamondback Terrapins over two decades.

2:30 220 **THIGPEN, ROBERT C., III.** Appalachian State University—Water flux in the caribbean spiny lobster (*Panulirus argus*) product, a socioeconomic concern, a fisheries sustainability issue

2:45 221 **MEADE, MARK, BENJIE BLAIR AND JONATHAN SPURGIN.** Jacksonville State University—Use of anaerobic probiotics as supplemental feeds in fish culture.

3:00 **COFFEE BREAK: VISIT POSTERS**

Invertebrate Zoology and Entomology II
Richland B

Presiding: Ronald V. Dimock, Jr., Wake Forest University

3:30 222 **THIGPEN, ROBERT C., III AND ROBERT P. CREED.** Appalachian State University—Stable isotope analysis shows ontogenetic diet shift of the Caribbean Spiny Lobster (*Panulirus argus*)

3:45 223 **HARDY¹, THOMAS J., TANYA TAVARES², SARAH KISSOON³ AND RAYMOND PETERSEN¹.** Howard University¹, University of Hawaii-Hilo² and Haskell University³—Contrasting profiles in bromeliad and *Heliconia* phytotelmic communities – the role of species interactions in controlling community structure.

4:00 224 **BORING, C. SHANE¹, JOHN M. ALDERMAN², JENNIFER M. SUMMERLIN¹ AND JOSEPH D. ALDERMAN².** Kleinschmidt Associates¹ and Alderman Environmental Services, Inc.²—Freshwater mussel assemblages of the lower Saluda and Congaree rivers, Lake Murray, and selected tributaries in the central Santee River Basin, South Carolina.

4:15 225 **DIMOCK, RONALD V., JR.** Wake Forest University—An insider's guide to clam gills.

Microbiology II
Carolina A & B

Presiding: Richard Long, University of South Carolina-Columbia

1:45 226 **THOMASON, KATHERINE AND MIN-KEN LIAO.** Furman University—Isolation and characterization of tetracycline-resistant *Escherichia coli* in Furman Lake.

2:00 227 **EVERHART, SYDNEY E., HAROLD W. KELLER AND JOSEPH S. ELY.** University of Central Missouri—Ecology of canopy myxomycetes (true slime molds) on trees and grapevines (*Vitis aestivalis* and *V. vulpina*).

2:15 228 **KELLER, HAROLD W., SYDNEY E. EVERHART, COURTNEY M. KILGORE, ANGELA R. SCARBOROUGH AND GLENDA J. CARMACK.** University of Central Missouri—Myxomycetes, the true slime molds of Kentucky: new species and records, with field and laboratory observations of plasmodial tracks on a canine skull.

2:30 229 **MIDDLETON, GERRY.** University of Tennessee—Diatom community response to industrial pollution in Bear Creek and East Fork Poplar Creek watersheds, Oak Ridge, Tennessee.

2:45 230 **YORK, EMILY A., MELISSA B. COLLINS AND SEÁN P. O'CONNELL.** Western Carolina University—Bacterial diversity of soils and Hemlock rhizospheres in Great Smoky Mountains National Park.

3:00 **COFFEE BREAK: VISIT POSTERS**

ASB PAPER AND POSTER SESSIONS**ASB POSTER SESSIONS
EXHIBIT HALL**

Poster setup:	I 8:00 am — 9:00 am Thursday—P1 – P66
	II 7:00 am — 8:30 am Friday—P67 – P133
Posters displayed:	9:00 am — 4:00 pm Thursday and 8:30 — 4:00 Friday
Presenters stand by posters:	10:00 am — 11:00 am Thursday and Friday
Poster take-down:	4:00 pm—5:00 pm Thursday and Friday

Teaching Biology

P1 **NIEDZIELA, LINDA.** Elon University—Assessment of case studies for content delivery in upper level biology elective courses.

P2 **PRINCE, JOSHUA, LAURA BROOKSHIRE, PRESTON MOORE AND CHRISTINA EDDY.** North Greenville University—Development of inexpensive methods for analysis of DNA by agarose gel electrophoresis.

P3 **KIRLIN, MICHELLE S., MARJORIE C. WESTFALL, LEIGH A. HARDEN, KRISTEN K. CECALA, STEVEN J. PRICE AND MICHAEL E. DORCAS.** Davidson College.—The Davidson College Herpetology Laboratory's outreach program: using amphibians and reptiles as model species for environmental education.

Animal Behavior

P4 **HILL, CHRISTOPHER¹ E., SCOTT TOMKO¹, CHRISTOPHER ELPHICK² AND CARINA GJERDRUM².** Coastal Carolina University¹ and University of Connecticut²—Polyandry in the saltmarsh sparrow, *Ammodramus caudacutus*.

P5 **RICHARDSON, TERRY D.¹ AND ROBERT C. THIGPEN, III².** University of North Alabama¹ and Appalachian State University²—Prey size selection in juvenile Caribbean spiny lobster, *Panulirus argus*.

P6 **PORTER, TERESA A. AND JENNIFER CRUSE-SANDERS.** Salem College—Behavioral comparison of bat and moth pollinators of a cactus.

Animal Ecology

P7 **MATHENIA, JOSH M. AND H. DAWN WILKINS.** University of Tennessee at Martin—Interactions between resident and migratory woodpeckers in a bottomland hardwood forest in northwest Tennessee.

P8 **MCDONALD, DAX AND ROBERT CARTER.** Jacksonville State University—The effects of prescribed burning on small mammal communities in the Talladega National Forest, AL.

P9 **BEATTIE, MICHELLE AND WILLIAM ENSIGN.** Kennesaw State University—Ecoregion differences in lipid content of *Campostoma oligolepis*.

P10 **CRUZ, ANGEL¹, JOANNA HAWLEY¹, ONA STRIKAS² AND DENNIS HANEY¹.** Furman University¹ and Harvard University²—Relationships between urban land cover, stream microhabitat structure, and fish assemblages in the Enoree River watershed of northwestern South Carolina.

P11 **RADER, JESSICA.** Middle Tennessee State University—A comparison of stream fish assemblages in adventitious streams of a reservoir and a free flowing river.

P12 **HOLZER, KATIE¹, SCOTT WARSEN² AND CHRISTOPHER MOWRY³.** Lewis and Clark College¹, Calvin College², Berry College³—Measurement of home-range size and activity patterns of coyotes in northwestern Georgia using radio telemetry and camera trapping.

P13 **COLLIER, ALEX, STEVE TAYLOR, JENNIFER ZETTLER AND VIDYA NAIR.** Armstrong Atlantic State University—The influence of potential predation on the growth and development of leopard frog tadpoles (*Rana sphenocephala*).

P14 **HENSLEY, NINA M. AND STEPHEN C. RICHTER.** Eastern Kentucky University—Population status and genetic variability of two remaining populations of endangered dusky gopher frogs, *Rana sevosa*.

P15 **WINNE, CHRISTOPHER T. AND WILLIAM A. HOPKINS.** University of Georgia, Savannah River Ecology Laboratory—Influence of sex and reproductive condition on terrestrial and aquatic locomotor performance in the semi-aquatic snake *Seminatrix pyg*.

P16 **ROWAN, HEATHER AND NICHOLAS SCHISLER.** Furman University—Taxonomic status of a coastal population of meadow voles in South Carolina.

P17 **SCULL, GREGORY L., ROBERT CARTER, MARK MEADE, AND JOSHUA TURNER.** Jacksonville State University—American Black Bear (*Ursus americanus*) activity in Northeast Alabama.

P18 **KEANE, ELIZABETH AND HAL BALBACH.** University of Illinois at Urbana-Champaign and US Army ERDC-CERL—How can we better manage a southeastern at-risk species?

P19 **THOMPSON, JODY M.¹, ARTHUR G. APPEL², JEFF L. SIBLEY², GARY J. KEEVER² AND WHEELER G. FOSHEE, III².** State Lands Division ALDCNR¹ and Auburn University²—Comparative water relations of three sympatric terrestrial slugs: (Stylommatophora: Agriolimacidae, Limacidae, and Philomycidae).

P20 **GODARD¹, RENEE D., C. MORGAN WILSON¹, JESSICA FRICK¹ AND PAUL B. SIEGEL².** Hollins University¹ and Virginia Polytechnic Institute and State University²—The effects of environmental exposure and microbial colonization on hatchability of eggs in open-cup and cavity nests.

Animal Physiology

P21 **LOBATO, DENAE N., CHRISTINA E. WHEELER, C. MORTAN WILSON AND RENEE D. GODARD.** Hollins University—Determining the duration of the adrenocortical response in the House Sparrow, *Passer domesticus*.

P22 **ZHANG, YING, MARJORIE C. WESTFALL, KATHLEEN C. HERMES AND MICHAEL E. DORCAS.** Davidson College—Physiological and behavioral control of heating and cooling rates in rubber boas, *Charina bottae*.

P23 **GIARDINA, ANDREA, JOHN WHEELER AND SANDRA F. LARSON.** Furman University—Long-term and acute effects of zinc contamination of a stream on fish mortality and physiology.

P24 **KEMP, CLAIRE, CANDACE LINDLER AND THOMAS C. ALLEN.** North Greenville University—Investigation of an estrogen stimulated, chemotactic factor for eosinophils in the rat uterus using an unique *in situ* model.

Herpetology

P25 **GRAY, NICOLE¹, RICCARDO FIORILLO², KODY CHASE³ AND THOMAS MCELROY¹.** Kennesaw State University¹, University of Louisiana Monroe², Shorter College³—Genetic structure and parentage analysis of the marbled salamander, *Ambystoma opacum*, in Marshall Forest, Rome, GA.

P26 **WESTFALL, MARJORIE C., KRISTEN K. CECALA, STEVEN J. PRICE, AND MICHAEL E. DORCAS.** Davidson College—Patterns of Trombiculid mite (*Hannemania* sp.) parasitism among Plethodontid salamanders in the western Piedmont of North Carolina.

P27 **DIEFENBACHER, ERIC H., KATHRYN R. PAWLIK AND THOMAS K. PAULEY.** Marshall University—Morphological examination of Green Salamander (*Aneides aeneus*) toe discs.

P28 **JAEGER, COLLIN P., CARRIE A. CASTEEL, JAKE A. PRUETT AND VINCENT A. COBB.** Middle Tennessee State University—Spatial ecology of two turtle species on Reelfoot Lake.

P29 **CHASE, KODY¹ AND RICKY FIORILLO².** Shorter College¹ and University of Louisiana Monroe²—Life history and reproductive ecology of *Ambystoma opacum* in a seasonal pond.

P30 **CECALA, KRISTEN K., STEVEN J. PRICE AND MICHAEL E. DORCAS.** Davidson College—Seasonal activity and movement of larval Red Salamanders (*Pseudotriton ruber*).

P31 **HARDEN, LEIGH ANNE¹, NICK A. DILUZIO¹, J. WHITFIELD GIBBONS² AND MICHAEL E. DORCAS¹.** Davidson College¹ and Savannah River Ecology Laboratory²—Spatial and thermal ecology of diamondback terrapins (*Malaclemys terrapin*) in a South Carolina salt marsh.

P32 **STACY, JODI AND PAUL V. CUPP, JR.** Eastern Kentucky University—An evaluation of artificial cover objects in monitoring Plethodontid Salamanders in Central Kentucky.

P33 **CASTEEL, CARRIE A., COLLIN P. JAEGER AND VINCENT A. COBB.** Middle Tennessee State University—Reproduction of three freshwater turtle species at Reelfoot Lake.

P34 **SCHULTZ, JESSICA J. AND KEVIN M. GRIBBINS.** Wittenberg University—Spermiogenesis within the testis of the Jamaican anole, *Anolis lineatopus*.

P35 **BARNES, SHELLY L. AND KEVIN M. GRIBBINS.** Wittenberg University—Evidence of a conserved temporal germ cell development strategy within the continuous breeding male anole, *Anolis lineatopus*.

P36 **RHEUBERT, JUSTIN L. AND KEVIN M. GRIBBINS.** Wittenberg University—A preliminary light microscopic study of spermatogenesis within the testes of the Cottonmouth snake, *Agkistrodon piscivorus*.

P37 **SCOTT, A. FLOYD¹ AND WILLIAM H. REDMOND².** Austin Peay State University¹ and Dog Hill Farm²—Occurrence records for reptiles in Tennessee: sources, historical development, and geographic distribution.

P38 **PARKER, NATHAN L. AND A. FLOYD SCOTT.** Austin Peay State University—Recent invasion of the Green Treefrog, *Hyla cinerea*, into upland regions of Southeastern United States.

P39 **ANDERSON, WESLEY M., STEVEN J. PRICE AND MICHAEL E. DORCAS.** Davidson College—Aspects of the natural history of rat snakes (*Elaphe alleghaniensis*) in the western Piedmont of North Carolina.

P40 **CLINE, GEORGE, JAMES RAYBURN AND CLIFFORD WEBB.** Jacksonville State University—Snorkel/scuba survey of historic hellbender streams (What to do when hellbenders don't come?).

P41 **SCHNEIDER, AMY, AMY HAMILTON AND THOMAS K. PAULEY.** Marshall University and Mead Westvaco Corporation—A continued study of the use of man-made ponds for amphibian breeding in fragmented forested areas.

P42 **MCCOARD, NOAH S., KERIE Y. CORLEY AND THOMAS K. PAULEY.** Marshall University—Effects of water pH and ultraviolet radiation on the reproductive success of Wood Frogs (*Rana sylvatica*) in high elevations of West Virginia.

P43 **MALONEY, JOSHUA L. AND A. FLOYD SCOTT.** Austin Peay State University—A study of amphibian populations inside and outside a Combined Sewer Overflow drainage in Montgomery County, Tennessee.

P44 **JOHNSON, EMMY, AMY SCHNEIDER AND THOMAS K. PAULEY.** Marshall University—Response of forest salamanders to Diflubenzuron treatments as a method to control Gypsy Moths.

P45 **MORAN, DOUGLAS, DYKSTRA FREEMAN AND JONATHAN AKIN.** Northwestern State University of Louisiana—A FETAX analysis of the effects of atrazine on development of *Xenopus* tadpoles.

P46 **BALDWIN, TIMOTHY E. AND THOMAS K. PAULEY.** Marshall University—Ecology and distribution of Rough Greensnakes and Smooth Greensnakes (*Opheodrys aestivus* and *Opheodrys vernalis*) in West Virginia.

Plant Biology

P47 **LUMAGA, MARIA ROSARIA BARONE¹, JAMES E. MICKLE², ALDO MORETTI¹ AND PAOLO DE LUCA¹.** Università degli Studi di Napoli "Federico II"¹, North Carolina State University² SEM studies of cuticle micromorphology in *Cycas L.* (Cycadaceae).

P48 **COLLIER, MATTHEW H.¹, BRIAN KEANE² AND STEVEN H. ROGSTAD³.** Wittenberg University¹, Miami University, Hamilton² and University of Cincinnati³—Productivity differences between dandelions (*Taraxacum officinale*; Asteraceae) taken from pollution impacted versus non-impacted soils.

P49 **GRANT, STEPHANIE AND LAURA E. DEWALD.** Western Carolina University—The effects of the decline of the *Castanea dentata* and different management techniques on the genetic diversity of *Quercus rubra* in Western North Carolina.

P50 **REFI, SARAH S.** University of South Carolina—The COP9 signalosome subunit LeCSN5 controls defense responses to wound and pathogen signals via interaction with MAP kinase pathways.

P51 **PANCHOLI, SUCHITA AND JOHANNES STRATMANN.** University of South Carolina—Activation of MAPKs and direct defense responses in *Lycopersicon esculentum*.

P52 **ANORUO, FLORENCE.** University of South Carolina, Columbia—Associational defense of *Ilex vomitoria* by *Iva frutescens* and *Myrica cerifera*.

P53 **LLOYD, MICHAEL W. AND ROLAND P. ROBERTS.** Towson University—Phylogenetic position of three morphologically distinct North American populations of *Arabidopsis lyrata* spp. *lyrata* among species of *Arabidopsis* and related genera.

P54 **MASSEY, F. WANDA AND ROLAND P. ROBERTS.** Towson University—An assessment of gene flow among populations of *Solidago sempervirens* along the eastern and western shores of the Chesapeake Bay.

P55 **WOODS, MICHAEL.** Troy University—The genus *Lespedeza* (Fabaceae) in Alabama.

P56 **ENDRES, MATTHEW, GE XIN, LEWIS BOWMAN AND VICKI VANCE.** University of South Carolina—An endogenous suppressor of RNA silencing.

P57 **STEWART, HEATHER, CAROLJANE ROBERSON AND JOE POLLARD.** Furman University—Manganese hyperaccumulation in *Phytolacca americana*.

Aquatic, Wetland and Marine Management

P58 **BLAIR, BENJIE¹, LAWRENCE NELSON¹, CHRIS MURDOCK¹, MARK MEADE,¹ STEPHEN WATTS², AND ADDISON LAWRENCE³.** Jacksonville State University¹, University of Alabama in Birmingham² and Texas A&M University³—Qualitative analysis of sea urchin, *Lytechinus variegatus*, gut microflora to improve culture methods.

P59 **TURNER, JOSHUA, MARK MEADE AND GREG SCULL.** Jacksonville State University—Genetic dynamics of fish populations in the Middle Coosa Watershed, Alabama.

P60 **AGRAZ, VICTOR A.** Western Carolina University—The effect of hydrology and disturbance on the growth of *Juncus effusus* L. in a restored southern Appalachian wetland.

P61 **STOECKMANN, ANN M. AND ASHLEY BREWINGTON.** Francis Marion University—Seasonal patterns of water quality parameters and their contribution to low dissolved oxygen in a SC blackwater creek.

P62 **LEE, REBEKAH AND JANET MACFALL.** Elon University—Enzyme activity in hyporheic soils of piedmont Streams.

P63 **STONE, PETER A.¹, MICHAEL J. DUEVER² AND JOHN F. MEEDER³.** South Carolina Department of Health and Environmental Control¹, South Florida Water Management District², and Florida International University³—Origin and evolution of Corkscrew Swamp Sanctuary, a freshwater peatland in southwest Florida.

P64 **SPARKS, MELINDA¹, HERMAN W. HUDSON¹, ROBERT B. ATKINSON¹ AND JAMES E. PERRY, III².** Christopher Newport University¹ and College of William and Mary Virginia Institute of Marine Science²—The effect of *Typha glauca* and hydrology on *Taxodium distichum* saplings in a three-year-old created forested wetland in southeastern Virginia.

P65 **OGBURN, DAMON AND LINDA NIEDZIELA.** Elon University—The effects of oil dispersants on mortality, development, and ATPase activity in *Artemia franciscana*.

P66 **CINCOTTA, DAN A.¹ AND STUART A. WELSH².** West Virginia Division of Natural Resources¹ and U.S. Geological Survey²—Fishes of West Virginia: an atlas of West Virginia fish.

Plant Ecology

P67 **LU, ZHIJUN AND SCOTT FRANKLIN.** Department of Biology, University of Memphis—Clonal integration and expansion of bamboo (*Bashania fargesii*) into old-fields.

P68 **MEEKS¹, LISA, CASANDRA REYES², JOSE LUIS ANDRADE², JOSE CARLOS CERVERA², THOMAS MCELROY¹ AND PAULA C. JACKSON¹.** Kennesaw State University¹, Centro De Investigación Científica De Yucatán²—Preliminary study of the physiology of three tree species in Dzibilchaltun, Yucatan Peninsula, Mexico.

P69 **ROSE, SAMUEL AND JONATHAN HORTON.** University of North Carolina at Asheville—Mycorrhizal influence on photosynthesis and biomass production in drought-stressed *Celastrus orbiculatus*.

P70 **WAIER, JACLYN AND PAULA C. JACKSON.** Kennesaw State University—A First Look at the Physiology of *Cypripedium acaule* (pink lady's slipper) compared to two other understory plants: *Asarum canadense* (wild ginger), and *Quercus* sp. (oak sapling).

P71 **WARREN, ROBERT J., II AND H. R. PULLIAM.** University of Georgia—Demographic response of two understory evergreen herbs across multiple environmental gradients.

P72 **ALLEN, CARRIE E. AND CHRISTOPHER A. ADAMS.** Shorter College —Seed dormancy and germination ecology of dimorphic seeds in *Grindelia lanceolata* (Asteraceae) from cedar glades in North Alabama.

P73 **WALKER, JOHN F.¹, LORETTA C. JOHNSON², NICHOLAS B. SIMPSON², JUSTIN TROWBRIDGE² AND ARI JUMPPONEN².** ¹Appalachian State University and ²Kansas State University—Arctic ericoid plants depend on a unique assemblage of fungi for uptake of organic N.

P74 **HUTCHENS, JOHN J., JR., JAMES O. LUKEN, SUNNI D. STEWART AND SCOTT G. TOMKO.** Coastal Carolina University—Prey composition of the Venus' fly trap in a coastal South Carolina landscape.

P75 **HULL, JAMES C.** Towson University—Assessment of impact of deer browsing on populations of *Gentianopsis crinita*, a Maryland endangered species.

P76 **GIUNTA, ANTHONY JR.¹, DANNY J. GUSTAFSON¹, DENNIS DEEMER² AND CRAIG S. ECHT².** The Citadel¹ and USDA Forest Service²—Assessing the fine scale spatial genetic structure of *Lindera melissifolia* in North and South Carolina.

P77 **KIMMITT, LU ANNE P. AND JAMES C. HULL.** Towson University—Reestablishment of *Gentianopsis crinita* at Soldiers Delight Natural Environment Area

P78 **CHHER, LINDA¹ AND LAWRENCE A. WILSON^{1,2}.** Emory University¹ and Fernbank Science Center²—Nonnative invasive plant species in urban forests within Piedmont region of the Southeastern USA.

P79 **MARCINKO, SARAH E. AND ALAN S. WEAKLEY.** University of North Carolina at Chapel Hill—Status and trends of rare plant species in the Southeastern United States.

P80 **HELMS, CLINT L. AND CHRISTOPHER A. ADAMS.** Shorter College—Competition studies on *Scutellaria montana* (Lamiaceae), a federally endangered species of northwest Georgia.

P81 **HOLLADAY, CORI-ALICE¹, HOWARD S. NEUFELD¹ AND BEVERLY COLLINS².** Appalachian State University¹ and Western Carolina University²—Phytoremediation potential of loblolly pine (*Pinus taeda* L.) in wetland soils with heavy metal contamination.

P82 **TEETS, AARON F.¹, R. TRAVIS BELOTE¹, A. L. TOM HAMMETT¹, ROBERT H. JONES¹, CAROLA HAAS¹ AND LUKE HARRIS.** Virginia Tech¹—Response of medicinal plants to alternative forest management options in the Southern Appalachian Mountains.

P83 **ACARO, ZACHARY, E.¹ AND ALEXA J. MCKERROW².** North Carolina State University¹ and Gap Analysis Project²—Evaluating LIDAR data for characterizing canopy structure in the Croatan National Forest.

P84 **EVERHART, SYDNEY E., HAROLD W. KELLER, AND JOSEPH S. ELY.** University of Central Missouri—Role of bark characteristics and epiphyte cover in the abundance, distribution, and succession of corticolous myxomycetes (true slime molds).

P85 **LATTY, ERIKA AND PAMELA CRUZ.** Hollins University—Response of tree diversity to nonindigenous earthworm species introductions in Appalachian forests.

P86 **FLAVIA, BITUSSI¹, THOMAS MCELROY¹, ROBERTH US², LUIS SIMA², JOSE LUIS ANDRADE² AND PAULA C. JACKSON¹.** Kennesaw State University¹ Centro De Investigación Científica De Yucatán²—Patterns of distribution of an evergreen species (*Gymnopodium floribundum*) in a tropical dry deciduous forest: a closer look.

P87 **WILSON, GRANDON, JOHN B. NELSON AND DANIEL L. TUFFORD.** University of South Carolina—A seed bank study of a seepage wetland on the South Carolina coastal plain.

P88 **VERNIER, KIM¹, VINCENT HUSTAD¹, ANDREW S. METHVEN¹, SCOTT MEINERS¹ AND ANDREW N. MILLER².** Eastern Illinois University¹, Illinois Natural History Survey²—Communities of wood-decaying macrofungi associated with tree windfall in old growth prairie groves.

P89 **KOONTZ, JOSHUA M. AND SCOTT B. FRANKLIN.** University of Memphis—Effects of fire on riparian plant communities at Land Between the Lakes.

P90 **HUSTAD, VINCENT¹, KIMBERLY VERNIER¹, ANDREW S. METHVEN¹, SCOTT MEINERS¹ AND ANDREW N. MILLER².** Eastern Illinois University¹, Illinois Natural History Survey²—Assessment of macrofungal species composition and richness in old growth prairie groves.

P91 **JUETT, BEVERLY, KATHERINE HOUP AND RON HOUP.** Midway College—Four year succession study of vascular flora in a riparian buffer along Lee's Branch in central Kentucky.

P92 **CRABTREE, CHRISTOPHER D., HAROLD W. KELLER AND JOSEPH S. ELY.** University of Central Missouri—Fungi and myxomycete species assemblages among natural communities and microhabitats at Ha Ha Tonka State Park, Missouri.

P93 **FLOYD, ROBERT AND ROBERT CARTER.** Jacksonville State University—Phytosociological history of the Pine Mountain Range, GA.

P94 **CARTER, ROBERT, BRETT RUSHING, JOSH FORREST AND BRENT ABERNATHY.** Jacksonville State University—Plant communities of the Dugger Mountain Wilderness, Talladega National Forest, Alabama: Preliminary results.

P95 **HUSKINS, STACY AND JOEY SHAW.** University of Tennessee at Chattanooga—A preliminary flora of the North Chickamauga Creek Gorge State Natural Area.

P96 **ECHOLS, LEE.** University of Georgia—Vascular flora of the remnant blackland prairies of central Georgia.

P97 **VANDEGRIFT, A.W., R. TRAVIS BELOTE AND ROBERT H. JONES.** Virginia Tech—Increases in soil organic matter following canopy disturbance mediates soil nutrient responses to timber harvesting intensity.

P98 **MARLOWE, MONICA AND KEVIN GODWIN,** Coastal Carolina University—Linking landscape to local properties of a globally rare wetland type: Carolina bays of South Carolina.

Microbiology

P99 **BLANKINSHIP, LISA ANN¹ AND JOSEPH J. GAUTHIER².** Troy University¹ and the University of Alabama at Birmingham²—Survival of bacteria during aerobic digestion.

P100 **ARZU-THOMPSON, KANDIS¹, W. LENA AUSTIN¹, RUEL MICHELIN² AND L. FREDERICK¹.** Howard University¹ and Morgan State University²—Observations on the effect of culture filtrates of a strain of *Bacillus mojavensis* on germination of spores of *Alternaria* and *Ulocladium*.

P101 **STORRS, LUKE, DAVID GREENE, ANDREW COOMBS, DEVIN OWENS AND MICHAEL LAND.** Northwestern State University—Survey of *Salmonella* spp in *Anolis carolinensis* and methods of pathogen reduction.

P102 **THOMASON, KATHERINE, WALSH THOMAS AND MIN-KEN LIAO.** Furman University—Diversity of the *Escherichia coli* population in Furman Lake, the Furman Golf Pond, and the feces of Canada Geese.

P103 **CHRISAWN, CHARLIE¹, MIDDLETON CHANG¹, DAVID WESSNER¹, DAVID GLICK² AND CHRISTOPHER J. PARADISE¹.** Davidson College¹ and King's College²—A comparative analysis of microbial diversity in simulated aquatic treehole ecosystems.

P104 **SMITH, ARIEL¹, PAULA JACKSON¹, JOSE LUIS ANDRADE² AND THOMAS MCELROY¹.** Kennesaw State University¹, Centro De Investigacion Cientifica De Yucatan²—Analysis of fungal community diversity associated with dominant tree species from the Yucatan Peninsula, Mexico.

P105 **KIRKER, G.T., S.V. DIEHL AND M.L. PREWITT.** Mississippi State University—Effects of chlorothalonil (CTN) and butylated hydroxy toluene (BHT) on microbial communities involved in deterioration of wood using terminal restriction fragment length polymorphism (T-RFLP) analysis: Results from field study.

P106 **KNIGHT, CHINYERE¹, W. LENA AUSTIN¹, RUEL MICHELIN² AND L. FREDERICK¹.** Howard University¹ and Morgan State University²—The induction of a dark strain of *Bacillus mojavensis* as an endophyte in corn and cotton plants.

P107 **THOMAS, DEATON AND PREMILA N. ACHAR.** Kennesaw State University—Intraspecies variation in *Aspergillus flavus* in Georgia peanuts.

P108 **WAND, JULIA AND PREMILA N. ACHAR.** Kennesaw State University—Molecular characterization of *Aspergillus flavus* in Georgia peanuts using RAPD and PCR.

P109 **IBIJOKE, AKINJOBI AND PREMILA N. ACHAR.** Kennesaw State University—Interspecies variation in three different species of *Aspergillus* in Georgia peanuts.

P110 **CHO, IN KI, ALICIA WHATLEY, AND CHRISTI MAGRATH.** Troy University—Yeast microarray analysis of environmental samples from a wastewater treatment plant.

P111 **CHO, YOON AND CHRISTI MAGRATH.** Troy University—Direct assessment of transcription termination activity as transcription levels vary in *Saccharomyces cerevisiae*.

Genetics, Cellular and Molecular Biology

P112 **BELL, BRITTNEY L. AND STEPHEN C. LANDERS.** Troy University—Endocytosis and digestion in the parasitic dinoflagellate *Haplozoon*.

P113 **PHILLIPS, ROSLYN J.** Guilford College—Outbreak of *Staphylococcus aureus* isolates containing the *InuA* in the neonatal unit of Hospital Evita Lanus City, Argentina.

P114 **WELLINGTON, ALLEN S. AND TED ZERUCHA.** Appalachian State University—Identification of a Highly Conserved *Meis*-Linked Gene.

P115 **ZAYNER, JOSIAH AND ECE KARATAN.** Appalachian State University—Regulation of *Vibrio cholerae* biofilm by NspS.

P116 **LOMENICK, BRETT AND MARGARET KOVACH.** University of Tennessee at Chattanooga—Correlating gene expression with non-coding microsatellite instability in colorectal cancer.

P117 **SHALABI, RULA, KATIE MITCHUM AND ELI HESTERMANN.** Furman University—Similar AHR ligand responses of reporter gene and endogenous CYP1A1 expression in H1G1 mouse hepatoma cells.

P118 **BRAIK, SUSAN AND NICHOLAS SCHISLER.** Furman University—Phylogenetic distribution of introns in eukaryotic genomes revisited: a statistical comparison.

P119 **STRAND, DESERA, WILLIAM ENSIGN AND THOMAS MCEIROY.** Kennesaw State University—Genetic characterization of the stone roller (*Campostoma oligolepis*) in the Etowah River system.

P120 **MORGAN, SHERILYN AND BRADFORD BRADEN.** Bowie State University—Determine the structure of crystallized cryoimmunoglobulin, IgG Sch, by vapor diffusion and x-ray diffraction.

P121 **TURNER, RICHARD AND HEMAYET ULLAH.** Howard University—*Arabidopsis* Receptor for Activated C Kinase proteins: Role on hypoxia signaling pathways.

Invertebrate Zoology and Entomology

P122 **RELLINGER, ERIC J., JUSTIN L. TANK AND JAY A. YODER.** Wittenberg University—Maternal control on the capacity for water vapor absorption in ticks.

P123 **TANK, JUSTIN L.¹, JAY A. YODER¹, HORTON H. HOBBS, III¹ AND BRYAN L. BROWN².** Wittenberg University¹ and Clemson University²—Water relations of adult branchiobdellids from different crayfish hosts.

P124 **SNYDER, AMY, JENNIFER ZETTLER AND GREGORY KNOFCZYNSKI.** Armstrong Atlantic State University—Melanin distribution in Parnassian butterflies in relation to altitude changes.

P125 **GONSALVES-JACKSON, DEIRDRE.** Virginia Wesleyan College—Opisthobranch mollusks from the Eastern Shore of Virginia (Mollusca: Gastropoda: Opisthobranchia).

P126 **KEZIAH, LANDON K. CHRISTOPHER M. STREET AND C. BRIAN ODOM.** Wingate University—Prevalence and distribution of genetic markers in temporally and spatially separated colonies of the Red Imported Fire Ant, *Solenopsis invicta* (Buren).

P127 **SANOU, MISSA PATRICK, JENNIFER ZETTER, GREGORY KNOFCZYNSKI AND BILL LEIDERSDORF.** Armstrong Atlantic State University—Soil inhabited by fire ants (*Solenopsis invicta*) compared with other soils in relation to plant growth.

P128 **BASS, CRYSTAL, JENNIFER ZETTLER, AND GREGORY KNOFCZYNSKI.** Armstrong Atlantic State University—Temporal effects of red imported fire ants on soil chemistry.

P129 **DARDIS, DANIELLE R. SUZANNE R. LAZAROWITZ AND VICTOR R. TOWNSEND, JR.** Virginia Wesleyan College—Field study of leaf litter activity by cosmetid and sclerosomatid harvestmen in forests along the Northern Coast of Trinidad, W.I.

P130 **LAZAROWITZ, SUZANNE R. DANIELLE R. DARDIS AND VICTOR R. TOWNSEND, JR.** Virginia Wesleyan College—Mark-recapture study of harvestmen occupying tree trunks in a rainforest in Trinidad, W.I.

P131 **HELTSLEY, LAUREN P. DANIEL N. PROUD AND VICTOR R. TOWNSEND, JR.** Virginia Wesleyan College—Behavioral interactions between neotropical harvestmen and potential predators.

P132 **YODER, JAY A.¹, JACOB T. ARK¹, JOSHUA B. BENOIT² AND ERIC J. RELLINGER¹.** Wittenberg University¹ and The Ohio State University²—Characterization of a defense secretion in the red velvet mite.

P133 **BARTELS, P.J.¹ AND DIANE R. NELSON².** Warren Wilson College¹ and East Tennessee State University²—An electronic field guide and key to the tardigrades of the Great Smoky Mountains National Park.

Author Index for Papers and Posters with abstract Numbers

Authors Sorted by Last Name
(Numbers = abstract number; P = poster)

Please Note

The index is intended as a guide by author to locate day, place, and time of papers and posters in the listing of paper and poster sessions.

A			C		D
Abernathy, Brent	P94	Bolin, Jay F.	12, 73	Cline, George.....	198, 199, P40
Acaro, Zachary E.....	P83	Bond, Tristan	201	Cobb, Vincent	P28, P33
Achar, Premila N.	P107, P108,	Borchert, Jill	125	Coggins, Michael	3
Adams, Christopher A.	24, P80,	Boring, C. Shane	224	Coleman, Dwayne E.	27
Adams, Jennifer P.....	133	Bowman, Lewis	P56	Collier, Alex.....	P13
Agraz, Victor A.	P60	Boyer, Marjorie	17	Collier, Matthew H.....	P48
Aguirre, Karen.....	50	Boyle, Forbes	149	Collins, Beverly	P81
Akin, Jonathan	200, 204, P45	Boyle, Katherine A.	85	Collins, Melissa B.	230
Alderman, John M.	224	Braden, Bradford	P120	Cornett, Catherine	19
Alderman, Joseph D.	224	Braik, Susan	P118	Conner, William H.	16
Alexander, Jeremiah R.	60	Brannock, Pamela M.	57	Cook, Edward	101
Aliff, John V.	124	Bray, Jacob.....	45	Coombs, Andrew	P101
Allen, Carrie E.	P72	Bray, Rebecca D.	188	Cooper, Scott	122
Allen, Thomas C.	P24	Brewer, Elizabeth J.	61	Corbyons, Carolyn	95
Allison, James R.....	66, 190	Brewington, Ashley	P61	Corley, Kerie Y.	P42
Al-zein, Mohammad S.	89	Brookshire, Laura	P2	Cox, Patricia.....	166
Amis, Jacqueline E.....	127	Broome, Lauren	208	Crabtree, Christopher D.	P92
Anderson, Peter A. V.....	108	Brown, Bryan L.	P123	Craven, Kathryn Stephenson ..	208
Anderson, Wesley M.	P39	Brown, Christopher G.	159	Creech, Ronald E.....	111
Andrade, Jose Luis.....	P68, P86,	Bucher, Ashley	45	Creed, Robert P.	173, 222
Andrews, Bethany	P104	Burkey, Kent O.	76	Crosby, Sarah	23
Andrews, Florence.....	P52	Burne, Brian.....	192	Cruse-Sanders, Jennifer	P6
Appel, Arthur G.....	P19	Bush, Catherine M.	35, 36, 39	Cruz, Angel	P10
Ark, Jacob T.	P132	Butnor, John R.	100	Cruz, Pamela	P85
Arzu-Thompson, Kandis	P100	 C		Cupp, Paul V., Jr.	135, P32
Atkinson, Robert B.	P64, 217	Campbell, Ashley.....	59		
Austin, W. Lena.....	P100, P106	Capps, Janet	194		
Awl, Jane.....	166	Carmack, Glenda J.	228		
 B		Carroll, Andrew	184, 196		
Baird, Kristen E.	33	Carstensen, Susan	117, 123		
Balbach, Hal	P18	Carter, Robert..	P8, P17, P93, P94		
Baldwin, Timothy E.....	P46	Casteel, Carrie A.	P33, P28		
Barger, Katie	128	Castillo, Christopher	61		
Ballinger, David	146	Cecala, Kristen K.	156, P3, P26,		
Barger, T. Wayne	86	P30		
Barnes, Shelly L.	P35	Cecere, Laura	128		
Barone, John.....	147	Cerami, Michele.....	80		
Barr, Amy	111	Cerbin, Bill	122		
Bartels, P. J.	P133	Cervera, Jose Carlos	P68		
Bass, Crystal	P128	Chalcraft, David R.	211		
Beamer, David A.	138	Chambers, Melissa G.	105		
Beattie, Michelle	P9	Chan, Florence	207		
Bell, Brittney L.	P112	Chandler, Gregory T.	195		
Belote, R. Travis	94, P97, P82	Chang, Middleton.....	P103		
Bennett, Stephen H.	163	Chase, Kody	P25, P29		
Benoit, Joshua B.	P132	Chher, Linda	P78		
Biernacki, Macie J.	19	Cho, In Ki	P110		
Billington, Neil	111, 110	Cho, Yoon.....	P111		
Blair, Benjie	121, 198, 221, P58	Choo, Mo	80		
Blanco, Wilredo	194	Chrisawn, Charlie	P103		
Blankinship, Lisa Ann	P99	Ciak, Catherine E.	160		
Blue, Jarrod.....	61	Cincotta, Dan A.	112, P66		
		Cipollini, Martin	142		
		Cirtain, Margaret C.	26		
		Clark, Ross C.	87, 88		
		Claydon, John.....	59		

Duberstein, Jamie	20	Godard, Renee D.....	P21, P20	Huyler, Ann	76		
Dudley, Breanna.....	129	Godwin, Kevin	140, P98	I			
Duever, Michael J.	P63	Goldberg, Justin	61	Iacarella, Luke.....	14		
Dunkerley, Rachel	74	Gonsalves-Jackson, Deirdre. P125		Ibijoke, Akinjobi	P109		
Duval, William L.....	30	Goodrich, Katherine.....	11	Iovine, Fulvia.....	120		
E							
Echols, Lee	P96	Goodwillie, Carol.....	10, 192	Ivey, Olin.....	130, 131		
Echt, Craig S.	P76	Gordon, Nicole Soper	142	J			
Eddy, Christina.....	P2	Grady, James	1	Jackson, Paula C. . P68, P70 P86,			
Elam, Caitlin E.	143	Graham, Matthew R.....	136 P104			
Ellis, Jennifer R.	7	Grant, Stephanie.....	P49	Jacoby, Gordon.....	101		
Elphick, Christopher	P4	Gray, Nicole.....	P25	Jaeger, Collin P.....	P28, P33		
Ely, Joseph S.	227, P84, P92	Greenberg, Cathryn H.	152	Jammingumpula, Neelima.....	194		
Endres, Matthew	P56	Greene, David	P101	Jelloe, Meghan	3		
Ensign, William.....	P9, P119	Grefe, Norman A. III.....	169	Jendrek, Amory L.....	209		
Erickson, Greg	194	Gregory, James D.	143	Johnson, Danielle	3		
Esquivel, Jorge L.	139	Gribbins, Kevin M. ..P34, P35, P36		Johnson, Emmy	P44		
Estes, Dwayne	82	Griffith, Adam.	18	Johnson, George P.	177		
Evans, Dan K.	13	Gustafson, Danny J.	P76	Johnson, Loretta C.....	P73		
Everhart, Sydney E. 227, 228, P84		H					
Extine, Jennifer L.....	96	Haas, Carola.....	P82	Johnson, Mary	106		
F							
Farmer, Susan B.	197	Hamilton, Amy	P41	Jolls, Claudia L.....	92, 93		
Farr, Jonathan	137	Hamisso, Mijitaba	74, 75, 79	Jones, Nicory	130, 131		
Fiorillo, Riccardo.....	P25, 24, P29	Hammett, A. L. Tom.....	P82	Jones, Robert H.	94, P82, P97		
Fischer, Robert U.	160, 161	Hamze, Samara I.....	93	Jones, Ronald K.....	181		
Fisk, Melany C.....	32	Hancock, Thomas E.	22	Jones, Sierra J.....	56		
Flagg, Raymond O.	41, 193	Haney, Dennis	P10	Jörgensen, Corinne.....	194		
Flavia, Bitussi.....	P86	Hanmer, Deborah	122	Jörgensen, Peter	194		
Fleming, Gary P.	71	Hansen, Curtis J.	176	Juett, Beverly	P91		
Fletcher, Madilyn.....	2	Harden, Leigh Anne..210, P31, P3		Jumpponen, Ari.....	P73		
Flint, William D.	136	Hardy, Thomas J.	223	K			
Floyd, Robert.....	P93	Harris, Luke	P82	Kalcounis-Ruppell, Matina.....	214		
Forrest, Josh	P94	Harris, Margaret D.	54	Karatan, Ece	P115		
Foshee, Wheeler G. III	P19	Hatahet, Zafer.....	45	Keane, Brian	P48		
Fowler, Kadrin E.	12	Hawkins, Katherine.....	61	Keane, Elizabeth	P18		
Franklin, Scott	5, 26, 29, P67,	Hawley, Joanna.....	P10	Keever, J.	P19		
..... P89		Held, Michael E.....	15	Keitzer, Steven.....	202		
Freeman, Dykstra.....	P45	Helms, Clint L	P80	Keller, Harold W.	99, 227, 228,		
Friedman, Katherine L.	46	Heitsley, Lauren P.	P131 P84, P92			
Franckowiak, Ryan P.	110	Hensley, Nina M.	P14	Kemp, Claire	P24		
Frederick, L.	P100, P106	Hermes, Kathleen C.	P22	Keziah, Landon K.....	P126		
Frick, Jessica	P20	Herr, J. M., Jr.	81	Kilgore, Courtney M.	228		
Funk, Daniel J.	159	Herr, J. M., Jr.	78	Kimmitt, Lu Anne.....	P77		
G							
Gaddy, L.L.	72	Hestermann, Eli	P117	Kirker, G. T.....	P105		
Gage, Karla	19	Higgins, Rebecca C.	48	Kirlin, Michelle S.	P3		
Gaitros, Cynthia	194	Hilbish, Thomas J.	57	Kissoon, Sarah	223		
Gaitros, David	194	Hill, Christopher E.....	P4	Klucznik, Daniel J.	200		
Gallo, Maria.....	168	Hill, Jovonn	147	Knight, Chinyere	P106		
Garcia, Veronica.....	108	Hiltbold, Elizabeth M.	127	Knofczynski, Gregory	P124,		
Gardner, William	110	Hinkle, C. Ross	100 P127, P128			
Garland, Mark A.	191	Hobbs Horton H., III.....	P123	Koigi, Rachael N.	110, 111		
Gaston, Janet.....	111	Hogsett, A. Allison	136	Koonz, Joshua	P89		
Gauthier, Joseph J.	P99	Holder, Derrick S.	115	Kovach, Margaret....	44, 102, P116		
Gentry, Johnnie L.	177, 189	Holladay, Cori-Alice	P81	Krauss, Kenneth W.	16		
George, Robert Y.	218	Hollingsworth, T. J.	107	Krentz, Tyler.....	61		
Gerber, Jay P.	161	Holzer, Katie	P12	Krings, Alexander.....	185		
Giardina, Andrea	P23	Hood, Sharon M.....	94	Kroh, Glenn C.	97, 145		
Gibbons, J. Whitfield.. 150, 151,							
..... 212, 219, P31		Hopkins, William A.	P15	Kron, Kathleen A.	35, 36, 42		
Gibbons, Megan	205	Hopton, H. Myvonwynn.....	101	Kupfer, John A.	4, 5		
Gibbs, Sarah	213	Horn, Charles N.	83	L			
Gillespie, Emily L.	35	Horton, Jonathan	P69	Lamb, Trip	138		
Giunta, Anthony, Jr.	P76	Houp, Katherine.....	P91	Land, Michael.....	P101		
Gjerdrum, Carina.....	P4	Houp, Ron	P91	Landers, Stephen.....	P112		
Glick, David	P103	Howlett, Inigo.....	130, 131	Larson, Sandra F.	P23		
		Hudson, Herman W.	P64	Lattin, Christine	101		
		Hudson, Sharon.....	29	Latty, Erika.....	P85		
		Hughes, Nicole M.	25	Lawrence, Addison	P58		
		Hull, James C.	P77, P75	Lazarowitz, Suzanne R.	P129,		
		Huskins, Stacy	P95 P130			
		Hustad, Vincent	P90, P88	Lee, Melissa.....	19		
		Hutchens, John J. Jr.	P74				

Lee, Michael 149
 Lee, Rebekah P62
 Leidersdorf, Bill P127
 Lemoine, Francene J. 104
 Lett, Carly 28
 Liao, Min-ken 126, 226, P102
 Linder, Eric 213
 Lindler, Candace P24
 Lloyd, Michael W. 6, P53
 Lobato, Denae N. P21
 Lomenick, Brett P116
 Long, Gerald W. 179
 Long, J. Furman 84
 Ludwig, J. Christopher 68
 Luken, James O 31, P74
 Lumaga, Maria Rosaria Barone 120, P47
 Liu, Xianhua 70
 Lu, Zhijun 29, P67

M

Macfall, Janet P62
 Macklin, James 189
 Magrath, Christi P110, P111
 Malcolm, E. 118
 Maloney, Joshua L. P43
 Maneva-Jakimoska, Karolina 194
 Marbert, Bryan S. 53
 Marik, Julie E. 92, 93
 Marlowe, Monica P98
 Marcinko, Sarah E. 91, P79
 Marrero, Solimar 23
 Massey, F. Wanda P54
 Mast, Austin 175, 194
 Mathenia, Josh M. P7
 Mathews, Katherine G. 18, 64
 Matthews, Elizabeth R. 144
 McCall, Amanda F. 155, 157
 McCauley, David E. 7
 McCoard, Noah S. P42
 McCook, Lucile M. 183
 McDonald, Dax P8
 McElroy, Thomas P25, P68, P86, P104, P119
 McKerrow, Alexa J. P83
 McMillan, Brett A. 141
 McMillan, Patrick D. 63
 McMullen, Conley K. 33
 McNew, Keri 145
 Meade, Mark 153, 221, P17, P58, P59
 Meeder, John F. P63
 Meeks, Lisa P68
 Meiners, Scott P88, P90
 Metcalf, Christopher K. 164
 Methven, Andrew S. P88, P90
 Michelin, Ruel P100, P106
 Michot, Allen III 24
 Mickle, James E. 120, P47
 Middleton, Gerry 229
 Miller, Andrew N. P88, P90
 Miller, B. 52
 Miller, Darren 214
 Miller, Ryan 130, 131, 184, 196
 Miller, Stanlee 152
 Milliacan, Daniel S. 114
 Milne, Marc A. 169
 Mitchum, Katie P117
 Montagna, Paul A. 168
 Moore, Gerry 189
 Moore, J. E. 5

Moore, Preston P2
 Moran, Douglas P45
 Moretti, Aldo P47
 Moriuchi, Ken 194
 Morgan, Sherilyn P120
 Morovitz, Jason 97
 Morris, Timothy A. 134
 Mowry, Christopher B. 51, P12
 Murdock, Christopher A. 103, P58
 Murrell, Zack 40, 69, 174
 Musselman, Lytton J. 73, 188

N

Naczi, Robert F. C. 186
 Nair, Vidya P13
 Naylor, Helen 37
 Nelson, Diane R. P133
 Nelson, Gil 175
 Nelson, John B. 84, 90, 163, P87
 Nelson, Lawrence P58
 Nesom, Guy 187
 Ness, Jennifer M. 8
 Neufeld, Howard S. 32, 76, P81
 Niedenberger, Bryan A. 41
 Niedziela, Linda P1, P65
 Novak, James M. 160

O

O'Connell, Sean P. 230
 Odom, C. Brian P126
 Ogasawara, Masamichi 162
 Ogburn, Damon P65
 O'Kelley, Jeffrey 153
 Oswalt, Christopher M. 98
 Owens, Devin P101
 Owens, Kathleen M. 51
 Owens, Devin P101

P

Pancholi, Suchita P51
 Paradise, Christopher J. 61, P103
 Parajuli, Shanta 148
 Parker, Nathan L. P38
 Paul, Deborah 194
 Pauley, Thomas K. 133, 136, 201, 202, 206, P27, P41, P42, P44, P46
 Pawlik, Kathryn R. P27
 Pederson, Charles L. 160, 161, 165
 Pederson, Neil 101
 Peet, Robert K. 17, 70, 144, 149
 Peinhardt, Bobby 205
 Perkins, Fern S. 32
 Perry, James E., III P64
 Petersen, Raymond 223
 Pezeshki, S. Reza 26
 Phillips, Charles 44
 Phillips, Roslyn J. P113
 Pick, Leslie 107
 Pierce, S. 5
 Pilgrim, Melissa A. 150, 151
 Pinckney, James L. 3
 Pinder, John E., III 97, 145
 Pittman, Albert B. 85
 Pittman, Shannon E. 209
 Pittman, Sherry 50
 Platts, Margaret H. 46
 Poindexter, Derick 69, 174
 Pollard, Joe 23, P57
 Poole, Tyler J. 204
 Porter, Dwayne E. 2

Porter, S. 52
 Porter, Teresa A. P6
 Powers, Steven L. 115
 Prewitt, M. L. P105
 Price, Steven J. 60, 132, 156, 209, 210, P3, P26, P30, P39
 Prieto-Marquez, Albert 194
 Prince, Joshua P2
 Proud, Daniel N. 170, 171, P131
 Pruitt, Jake A. P28
 Pulliam, H. R. P71

Q

Quattro, Joseph 1
 Quattrocchi, John 54

R

Rader, Jessica P11
 Rae, John G. 154
 Raguso, Robert 11
 Randall, John L. 91
 Rasmussen, Jessica 165
 Rayburn, James P40
 Redding, T. 52
 Redmond, William H. P37
 Reese, M. 118
 Refi, Sarah S. P50
 Reighard, Kenny 75
 Rellinger, Eric J. P122, P132
 Reyes, casandra P68
 Rheubert, Justin L. P36
 Riccardi, Greg 194
 Richardson, Matthew 208
 Richardson, Terry D. P5
 Richter, Stephen C. 60, P14
 Ringeisen, Bradley 129
 Roberson, Carol Jane 23, P57
 Roberts, Mark 1
 Roberts, Matt E. 113
 Roberts, Roland P. 6, 37, 134, 186, P53, P54
 Roberts, Steven 149
 Rock, Philip 171
 Rogers, Tracy N. 211
 Rogstad, Steven H. P48
 Rollins, Dollie L. 39
 Romanek, Christopher S. 150, 151
 Romano, Frank A., III 168, 167
 Ronquist, Fredrik 194
 Rose, Samuel P69
 Rowan, Heather P16
 Rowe, M. 52
 Rushing, Brett P94

S

Sanders, Casie 75
 Sanou, Missa Patrick P127
 Sarvaideo Daniel 37
 Sasek, Thomas W. 182
 Sauterer, Roger 215
 Scarborough, Angela R. 99, 228
 Schafale, Michael 149
 Schaus, M. 52, 118
 Schilling, Edward E. 197
 Schisler, Nicholas P16, P118
 Schneider, Amy P41, P44
 Schroeder, Rachel E. 77
 Schultz, Jessica J. P34
 Schuster, Tanja M. 42
 Schwedler, Carolyn S. 113
 Schweiter, Callie 148

Scott, A. Floyd P37, P38, P43
 Scull, Gregory L P17, P59
 Seltmann, Katja 194
 Shalabi, Rula P117
 Sharitz, Rebecca R. 30
 Shaw, Joey 34, 184, 196, P95
 Shrestha, Sushma 13
 Sibley, Jeff L. P19
 Siegel, Paul B. P20
 Sima, Luis P86
 Simon, Thomas P. 155, 157
 Simpson, Nicholas B. 73
 Singh, Kartikeya 23
 Sloss, Brian L. 110
 Small, Randall L. 34, 186
 Small, Brian C. 103
 Smalley, Glendon 148
 Smith, Ariel P104
 Smith Gerald L. 39, 41, 191, 193
 Smith, William K. 22, 25
 Snyder, Amy P124
 Sorrie, Bruce A. 65
 Sparks, Melinda P64
 Spaulding, Daniel D. 176
 Spratt, Henry 128, 130, 131
 Spurgin, Jonathan 221
 Stacy Jodi. P32, 135
 Stalter, Richard 80
 Steelman, Charlotte K. 203
 Stewart, Heather 23, P57
 Stewart, Paul M. 155, 157, 164
 Stewart, Sunni D. P74
 Stocks, Stephanie D. 119
 Stoeckmann, Ann M. P61
 Stone, Peter A. P63
 Storrs, Luke P101
 Stover, Daniel B. 100
 Strahl, Maya 142
 Strand, Deserea P119
 Stratmann, Johannes P51
 Street, Christopher M. P126
 Strickland, Denise 123
 Strikas, Ona P10
 Stucky, Jon M. 143
 Summerlin, Jennifer M. 224

T
 Tadesse, Wubishet 148
 Taggart, Andy 49
 Talley, Jennell M. 46
 Tank, Justin L. P122, P123
 Tavares, Tanya 223
 Taylor, Christopher M. 113
 Taylor, Mackenzie L. 9
 Taylor, Steve P13
 Taylor, W. Carl 188
 Teets, A. F. P82
 Tenaglia, Dan 86
 Tennakoon, Kushan U. 73
 Thigpen, Robert C, III 173, 220, 222, P5
 Thomas, Walsh P102
 Thomason, Katherine 226, P102
 Thompson, Jody M. P19
 Thompson, Ralph L. 181
 Timmerman, Briana 116, 123
 Todd, Brian D. 158
 Tomko, E. Scott P4, P74
 Tomlinson, Patricia 142
 Tonkyn, David 54
 Townsend, John F. 68
 Townsend, Victor R. Jr. 170, 171, P129, P130, P131
 Trowbridge, Justin P73
 Tuberty, Shea 139
 Tufford, Daniel L. 163, P87
 Turner, Jefferey A. 98
 Turner, Joshua P17, P59
 Turner, Richard P121, 25

U
 Ullah, Hemayet 47, P121
 Us, Roberth P86

V
 Vance, Vicki P56
 Vandegrift, A. W. P97
 Vandermast, David 14, 95
 Van Devender, Robert Wayne 139
 Vandervort-Sneed, Joy 40
 Van Engelen, Robert 194
 Velente, Matthew J. 38
 Vernier, Kimberly P88, P90
 Viernum, Sara E. 198
 Villalpando, Shawn 55
 Vindigni, Melissa 214

W
 Waier, Jaclyn P70
 Waldbieser, Geoffrey C. 103
 Waldrop, Thomas 152
 Walker, Gary L. 146
 Walker, John F. 32, 139, P73
 Walker, Samuel P. 2
 Waller, Deborah A. 169
 Wand, Julia P108
 Wang, Yong 148, 207
 Ward, Christine 50
 Ware, Daniel F. 206
 Ware, Donna M. E. 71
 Ware, Richard 142
 Warner, Charlene A. 126
 Warren, Robert J., II P71
 Warsen, Scott P12
 Watts, Stephen P58
 Weakley, Alan 62, 67, 68, 70, 90, 144, 149, P79
 Wethey, David S. 57, 56
 Webb, Clifford J. 199, P40
 Weber, Jennifer 10
 Weckman, Timothy J. 88

Weeks, Andrea 31, 33, 43, 178
 Welch, Nicole Turrill 27
 Wellington, Allen S. P114
 Wells, Carrie N. 54
 Welsh, Stuart A. 112, P66
 Wender, Bryan 94
 Wentworth, Thomas S. 17, 143, 144, 149
 Wessner, David P103
 Westcott, Marlena 127
 Westfall, Marjorie C. P3, P22, P26
 Whatley, Alicia P110
 Wheeler, Christina E. P21
 Wheeler, John P23
 Whiting, Gary J. 77
 Wichmann, Brenda 17
 Wilkins, H. Dawn P7
 Williams, Joseph H. 9
 Williams, Ray S. 53, 55, 58
 Willson, John D. 150, 151, 212, 219
 Wilson, C. Mortan P20, P21
 Wilson, Grandon P87
 Wilson, Kelly 23
 Wilson, Lawrence A. P78
 Winne, Christopher T. 150, 151, 212, P15
 Winner, Steve 194
 Winstead, Joe E. 15
 Wise, Dwayne A. 105, 106
 Witmer, Patrick L. 164
 Wolff, Robert 172, 216
 Wood Andy 218
 Woodbine, Karlene 49
 Woodrey, Mark S. 2
 Woods, Michael P55
 Woolf, Michael S. 33
 Wyatt, Julie L. 21

X
 Xin, Ge P56
 Xiong, Jingyuan 110

Y
 Yalamanchili, Roopa 48
 Yoder, Jay A. P122, P123, P132
 York, Emily A. 230
 Young, Rob 18

Z
 Zayner, Josiah P115
 Zerucha, Ted P114
 Zetter, Jennifer P13, P124, P127, P128
 Zhang, Hua 107
 Zhang, Ying P22
 Zjhra, Michelle L. 11, 149, 180
 Zoellner, Danielle C. 140

The *Southeastern Naturalist* . . .

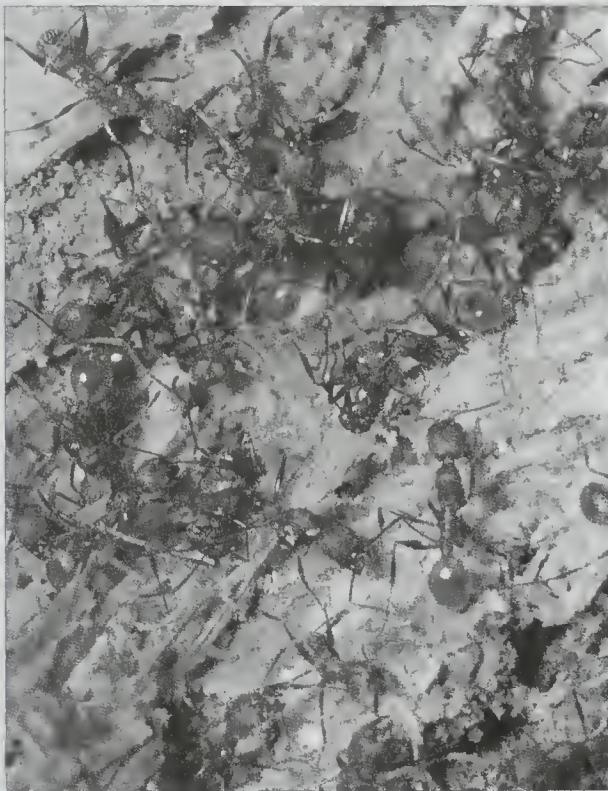
- ◆ A quarterly peer-reviewed and edited interdisciplinary scientific journal with a regional focus on the southeastern United States (ISSN #1528-7092).
- ◆ Featuring research articles, notes, and research summaries on terrestrial, freshwater, and marine organisms, and their habitats.
- ◆ Focusing on field ecology, biology, behavior, biogeography, taxonomy, evolution, anatomy, physiology, geology, and related fields. Manuscripts on genetics, molecular biology, archaeology, anthropology, etc., are welcome, especially if they provide natural history insights that are of interest to field scientists. Symposium proceedings are occasionally published.
- ◆ Indexed in Biological Abstracts (BIOSIS), BIOSIS Previews, CAB Abstracts, Cambridge Scientific Abstracts, EBSCOhost, Environmental Knowledgebase (formerly Environmental Periodicals Bibliography), FISHLIT (Fish and Fisheries Worldwide; Aquatic Biology, Aquaculture, and Fisheries Resources), Wildlife Review Abstracts, and Zoological Record (BIOSIS UK). Arrangements for indexing in Elsevier BIOBASE (Current Awareness in Biological Sciences), and ISI Services (Science Citation Index-Expanded, ISI Alerting Service, and Current Contents/Agriculture, Biology, and Environmental Sciences) are pending.
- ◆ A sister journal of the *Northeastern Naturalist* (ISSN #1092-6194), published since 1997. Both journals are identical in focus, format, quality, and features. The journals together serve as a matched-pair of regional journals that provide an integrated publishing and research resource for the eastern part of North America.
- ◆ Printed by Allen Press, printer of many journals in the biological and environmental sciences, especially those whose parent organization is a member of the American Institute of Biological Sciences (AIBS).
- ◆ Available online in full-text version in the BioOne database (www.bioone.org, a collaborative effort of Allen Press, AIBS, and other organizations) and the Proquest Information and Learning databases (www.il.proquest.com).
- ◆ For information, instructions for authors, and subscriptions: Southeastern Naturalist, PO Box 9, 59 Eagle Hill Road, Steuben, ME 04680-0009; 207-546-2821, FAX: 207-546-3042; <mailto:office@eaglehill.us>; <http://www.eaglehill.us/jsgeninf.html>. Online secure ordering of subscriptions is available!

Southeastern Naturalist

Volume 5

2006

Number 4



Southeastern Naturalist

 Volume 5

 2006

 Number 4

CONTENTS

Observations on the High Diversity of Native Ant Species Coexisting with Imported Fire Ants at a Microspatial Scale in Mississippi	573
Joe A. MacGown and Richard L. Brown	
Distribution and Status of the Cockroach <i>Arenivaga floridensis</i> Caudell, a Florida Sand Ridge Endemic	587
Trip Lamb, Teresa C. Justice, and Michael Justice	
The Vertebrate Fauna of Ichauway, Baker County, GA	599
Lora L. Smith, David A. Steen, Jonathan M. Stober, Mary C. Freeman, Steve W. Golladay, L. Mike Conner, and Jessica Cochrane	
Woodpecker Use of Forested Wetlands in Central Peninsular Florida	621
David L. Leonard, Jr. and I. Jack Stout	
Summer <i>Meleagris gallopavo silvestris</i> Use of a Landscape Dominated by Agriculture and <i>Pinus</i> spp. Plantations	637
John J. Morgan, Sara H. Schweitzer, and John P. Carroll	
Status and Life-history Aspects of <i>Villosa coustricta</i> (Conrad 1838) (Notched Rainbow), in the Upper Neuse River Basin, North Carolina	649
Chris B. Eads, Arthur E. Bogan, and Jay F. Levine	
Redeye Bass (<i>Micropterus coosae</i>) and Alabama Spotted Bass (<i>M. punctulatus henshalli</i>) Hybridization in Keowee Reservoir	661
D. Hugh Barwick, Kenneth J. Oswald, Joseph M. Quattro, and Robert D. Barwick	
Reproductive Life History of <i>Desmognathus folkertsi</i> (Dwarf Blaek-bellied Salamander)	669
Carlos D. Camp and Jeremy L. Marshall	
Telomere Length Shortens with Body Length in <i>Alligator mississippiensis</i>	685
Nicole M. Scott, Mark F. Haussmann, Ruth M. Elsey, Phillip L. Trosclair III, and Carol M. Vleck	
Distribution and Abundance of American Eels in the White Oak River Estuary, North Carolina	693
Joseph E. Hightower and Cynthia Nesnow	
Spatial Organization of Adult Bobcats in a Longleaf Pine-Wiregrass Ecosystem in Southwestern Georgia	711
Jessica C. Cochrane, Jordana D. Kirby, Ivy G. Jones, L. Mike Conner, and Robert J. Warren	
Movements and Habitat Use of the Key Largo Woodrat	725
Robert A. McCleery, Roel R. Lopez, and Nova J. Silvy	
Hurricane Impacts to Tree Islands in Arthur R. Marshall Loxahatchee National Wildlife Refuge, Florida	736
Cristina A. Ugarte, Laura A. Brandt, Stefani Melvin, Frank J. Mazzotti, and Kenneth G. Rice	
Baseline Mapping of <i>Phragmites australis</i> (Common Reed) in Three Coastal Mississippi Estuarine Basins	747
Mark S. Peterson and Melissa L. Partyka	
Book Reviews	757

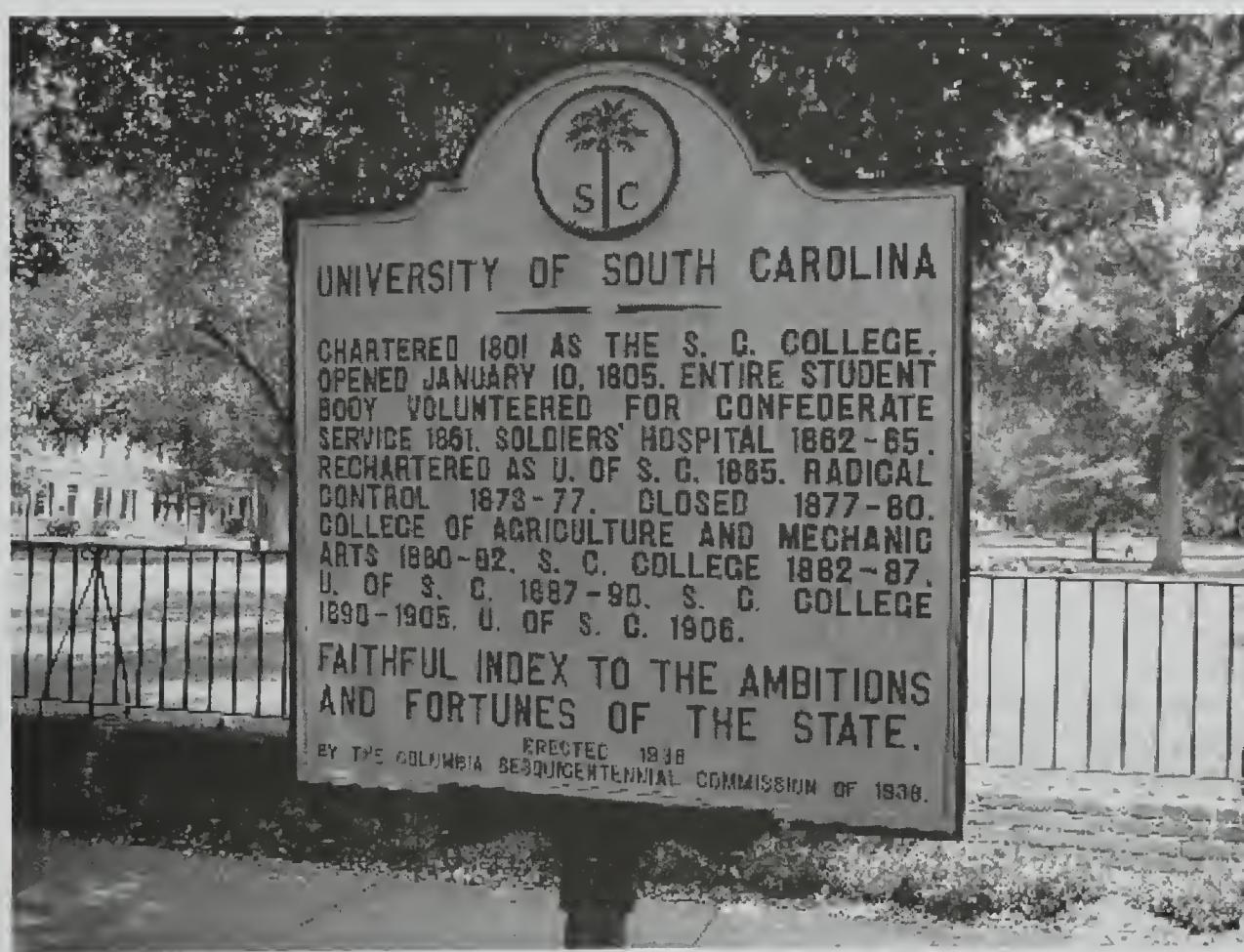
Classified Ads for Northeastern and Southeastern Naturalist

Classified ads offering opportunities for people with career interests in the natural history sciences may now be placed in the *Southeastern* and/or *Northeastern Naturalists*, within the following categories.

- Faculty positions at colleges and universities
- Graduate student fellowships and assistantships
- Postdoctoral research opportunities
- Field biologist positions
- Requests for funding proposals
- Announcements of scientific meetings and conferences

Ads need to be received by February 20, May 20, August 20, and November 20, and must be placed over the web at <http://eaglehill.us/Merchant2/merchant.mv>. Journal issues mail about one month later. Rates are a modest \$.03/character, with a \$5 minimum. Space allocated to classified ads within the journal is limited. Ads will be reviewed prior to acceptance.

63



AVAILABLE POSITIONS IN THE SOUTHEAST

Position: Botanist

Institution: Shorter College

Location: Georgia

Description:

Assistant Professor of Biology, Botany. Fall, 2007. Doctorate required with a BROAD background in the Biological, Environmental, and especially Plant sciences, and a strong desire to teach and advise undergraduates, especially at the freshman level. All duties will initially include General Biology, Botany, Plant Taxonomy, etc. as well as electives in Environmental and Plant sciences. Open until filled. Send cover letter, resume, transcripts, statement of teaching philosophy, and three professional references to Human Resources, Shorter College, 315 Shorter Avenue, Rome, Georgia 30165, or e-mail Shorter College is a Georgia Baptist Convention Institution. EEO.

Position: Microbiologist

Institution: Elon University

Location: North Carolina

Description:

Elon University seeks applicants for a tenure-track, Assistant Professor position starting August 2007. Ph.D. and evidence of excellence in teaching are required. The successful candidate will be a broadly trained microbiologist who will develop an active research program with undergraduates, contribute to molecular and cellular core courses, teach classical microbiology, and must be willing to teach in Elon's interdisciplinary general studies program. Additional teaching responsibilities may include an upper level biology elective course and general biology for non-majors. Elon is a dynamic private, co-educational, comprehensive institution that is a national model for actively engaging faculty and students in teaching and learning. To learn more about Elon, please visit our Web site at www.elon.edu. Review of applications will begin October 1, 2006 and continue until position is filled. Applications must be received by November 1 to be assured of consideration. Send letter of application, CV, statements of teaching philosophy and research goals, copies of transcripts, and three letters of support to: Dr. Robert Vick, 2625 Campus Box, Elon University, Elon, NC 27244. Inquiries are welcome at vickrs@elon.edu. Elon University is an equal opportunity employer committed to a diverse faculty, staff, and student body. Candidates from under-represented groups are encouraged to apply. E-mail: vickrs@elon.edu, Dr. Robert Vick, Search Committee Chair, Biology, Elon University, 2625 Campus Box, Elon, NC 27244, USA.

Position: Environmental Scientist

Institution: Jackson State University

Location: Mississippi

Description:

Jackson State University, located in metropolitan Jackson, is the 4th largest state supported institution in Mississippi with an enrollment of approximately 8,500 students. The College of Science, Engineering, and Technology consists of two academic schools: The school of Engineering with four departments (Civil

and Environmental Engineering; Communication Engineering; Computer Engineering; and Computer Sciences), and the School of Science and Technology with five departments (Biology; Chemistry; Mathematics; Physics, Atmospheric and General Science; and Technology); the Multi-disciplinary Environmental Science Ph.D. Program; and the Department of Aerospace Studies. Over 2,000 students are enrolled in the undergraduate and graduate programs, and 100 full-time faculty members are involved in teaching, research and service.

The Environmental Science Ph.D. Program and the Department of Biology, Jackson State University at Jackson, Mississippi invites applications for a 12-month research assistant professor position in molecular environmental health. The start date for this position is October 01, 2006. The candidate selected will be required to coordinate research activities in the Cellomics and Toxicogenomics laboratory; perform tissue cultures, cytotoxicity, genotoxicity, western blot, FACS, microarray, and confocal microscopy experiments; assist in grant proposal developments and research implementation; teach laboratory courses at both undergraduate and graduate levels; develop and teach courses in areas of scientific expertise, and train students in specific research protocols. The successful candidate is expected to have a Ph.D. in environmental science, environmental health, or related sciences; a minimum of two years of research experience in molecular environmental health; experience with the use and operation of analytical biomolecular technologies; and familiarity with GPLs.

Review of applications will begin September 20, 2006, and will continue until the position is filled. Candidates interested in this position should send a letter of application, curriculum vitae, academic transcripts, and three letters of recommendation to: Dr. Paul B. Tchounwou, Interim Associate Dean & Director, Environmental Science Ph.D. Program, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, Box 18750, Jackson, Mississippi 39217. Tel. (601) 979-2153 Fax: (601) 979-2058 E-mail: paul.b.tchounwou@jsums.edu.

Jackson State University is an equal opportunity, affirmative action employer.

Position: Stream Biologist

Institution: James Madison University

Location: Virginia

Description:

The Department of Biology at James Madison University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, beginning August 2007. A Ph.D. is required, as well as evidence of a strong commitment to undergraduate teaching and to establishing an active, externally supported research program involving undergraduates and master's level students and interdepartmental collaboration.

Preference will be given to candidates using experimental and/or quantitative methods. Post-doctoral research is desirable. Numerous potential collaborations are available with faculty in Biology, Chemistry and Geology working in local streams and regional watersheds. JMU is ideally situated in the central Appalachians of Virginia providing teaching and research environments with abundant and diverse stream habitats.

Teaching responsibilities include a course in aquatic ecology and lower division biology courses for either majors or nonmajors.

JMU is an Equal Opportunity/Affirmative Action/Equal Access Employer and especially encourages applications from minorities, women, and persons with disabilities. E-mail: wyngaaga@jmu.edu, Grace Wyngaard, Chair, Stream Biologist Search Committee.

Position: Organismal Field Biologist

Institution: Transylvania University

Location: Kentucky

Description:

Transylvania University, a selective, private, liberal arts college of 1,100 students, invites applications for a TENURE-TRACK ASSISTANT PROFESSOR starting September 2007. Ph.D. preferred; motivation and commitment to achieve excellence in teaching and involve undergraduates in research required. Teaching responsibilities include introductory biology course with laboratory and upper-level electives in specialty. Teaching load is two classes with laboratory sections per regular term and one class in May Term. The college has recently initiated an excellent faculty development program that competitively funds student and faculty research. Personal laboratory space provided. Bingham Awards for Excellence in Teaching may provide substantial salary supplements for exceptional candidates or smaller start-up awards for recent Ph.D.s. In your cover letter please identify and describe 2 specialty courses you would like to teach and how you would actively engage students in your classes. Also send curriculum vitae, graduate and undergraduate transcripts; and three letters of recommendation. Review of applications will begin on October 15th and will continue until an appointment is made.

Send applications to: Dr. James Wagner, Division of Natural Sciences and Mathematics, Transylvania University, Lexington, KY 40508. Telephone: 859-233-8228; FAX: 859-233-8171.

Transylvania University is an Equal Opportunity Employer and is committed to building a faculty that reflects the diversity of American society. E-mail: jwagner@transy.edu, Dr. James Wagner, Transylvania University, 300 North Broadway, Lexington, KY 40508, USA.

Position: Mycologist

Institution: Valdosta State University

Location: Georgia

Description:

The Department of Biology at Valdosta State University is seeking applications for a Mycologist to fill a tenure-track, academic-year faculty position at the Assistant Professor level to begin in August 2007. The successful candidate will teach majors and non-majors introductory biology courses, mycology, and other courses in the candidate's area of expertise. Research specialization can be in any area of mycology but preference will be given to candidates whose research will broaden the potential experience for our undergraduate and Master's-level graduate students.

Candidates must possess a Ph.D., must have an active research program that can be continued, and must have a strong commitment to undergraduate and graduate teaching. The candidate will be expected to include students in their research program. Post-doctoral research experience is preferred. Applicants should submit a letter of application, faculty application form

(http://www.valdosta.edu/academic/forms/fac_employment_app.pdf), current curriculum vitae, a summary of research interests and teaching philosophy, copies of academic transcripts, and three letters of reference under separate cover to: Mycology Search Committee, Dept. of Biology, Valdosta State University, Valdosta, GA 31698-0015. Review of complete applications will begin October 13, 2006 and continue until the position is filled. Mycology Search Committee, Department of Biology, Valdosta State University, Valdosta, GA 31698-0015.

Position: Cellular Biologist/Animal-Human Physiologist

Institution: Wofford College

Location: South Carolina

Description:

Tenure-track position in Cell Biology and Animal-Human Physiology. Additional courses in accordance with expertise and departmental needs. Background in developmental biology and an interest in research with undergraduates desirable.

Wofford: a nationally ranked liberal arts college, one of five private institutions in the Carolinas with a chapter of Phi Beta Kappa, 1300 students, excellent facilities, convivial culture, commitment to curricular excellence and innovation. Applicants should have PhD and sincere commitment to teaching and mentoring undergraduates. Rank and salary will be commensurate with experience. Send letter of application, resume, statement of teaching philosophy, and list of references to: Dr. George Shiflet, Chair, Department of Biology, Wofford College, Spartanburg, SC 29303-3663. Review of applications will commence October 1 and continue until the position(s) are filled. Further information: 864-597-4625 or e-mail shifletgw@wofford.edu. AA/EOE. E-mail : shifletgw@wofford.edu, Phone : 864-597-4625, Dr. George Shiflet, Professor, Biology, Wofford College, 429 N. Church Street, Spartanburg, SC 29303-3663, USA.

Position: Physiologist

Institution: Salisbury University

Location: Maryland

Description:

Salisbury University is a comprehensive regional university emphasizing undergraduate and graduate liberal arts, sciences, pre-professional and professional programs. For the past several years, the University has achieved national recognition for the quality of its facilities, students, and academic programs. Salisbury University is a member of the University System of Maryland and enrolls approximately 7,200 students in four endowed schools.

Applicants are sought for the tenure-track positions listed above. Faculty qualifications include a MFA or doctorate in the appropriate discipline (or ABD nearing completion of dissertation) with evidence of or potential for high quality teaching and research. Candidates must be able to use effective teaching and classroom management strategies which enhance the success of diverse learners. These positions begin August 15, 2007. To be considered an applicant you must submit all of the following: a letter of interest, a curriculum vita, and the names and phone numbers of at least three references. Successful candidates must furnish proof of eligibility to work in the U.S.

Salisbury University is an EEO employer and is strongly committed to recruiting and retaining a diverse faculty, staff and student body.

Position: Microbiologist

Institution: Loyola College

Location: Maryland

Description:

The Biology Department at Loyola College is offering a tenure track Assistant Professor position to begin in the fall of 2007. Applicants should be trained as a microbiologist with expertise in at least one of the following areas: molecular biology, medical microbiology, or virology. The successful candidate will be given the opportunity to teach introductory and upper-level courses in biology, be engaged in research involving undergraduate students, participate in departmental and college-wide service, and to receive guidance and mentoring from members of the department. The successful applicant will be expected to teach introductory courses in Cell and Molecular Biology, Organismal Biology, and/or Ecology, Evolution and Diversity, and also to teach upper level courses in their areas of specialization. Preference will be given to candidates with a strong background in cell/molecular biology or virology. Candidates should have a Ph.D. in Biology or a related discipline. Post-doctoral training and college teaching experience are preferred.

Loyola College is a selective liberal art, Jesuit Catholic institution that welcomes applicants from all backgrounds who can contribute to its educational mission. Loyola College is an Equal Opportunity Employer, seeking applicants from underrepresented groups. For more information about Loyola, please review our websites at <http://www.loyola.edu/> and <http://www.loyola.edu/biology/>.

To apply, please apply electronically at www.loyola.edu/careers and include a curriculum vitae, statement of teaching and research interests, a teaching philosophy, and contact information for three references. For more information please contact Monika Matthews, Administrative Assistant to the Biology Department or Dr. Kim Derrickson (kderrickson@loyola.edu), Search Committee Chair of the Biology Department. Applications received by October 15, 2006 will receive full consideration.

Position: Fish Ecology, Evolution and/or Systematics

Institution: University of Tennessee

Location: Tennessee

Description:

The Department of Ecology and Evolutionary Biology at the University of Tennessee, Knoxville, seeks to fill a tenure-track position in Ichthyology at the Assistant or Associate Professor level, to start August 1, 2007. Teaching duties will include an undergraduate ichthyology course and a discipline-specific graduate course. A major responsibility of this position is supervision and further development of the superb UT fish collections. Successful applicants will have demonstrated the ability to interact and collaborate broadly in their research and teaching. An earned PhD in a relevant field is required. Postdoctoral or faculty experience is preferred, and applicants will be expected to develop an externally funded and internationally recognized research program. For more information visit <http://eeb.bio.utk.edu>. The University of Tennessee, Knoxville, is the state's flagship research institution, a campus of choice for outstanding undergraduates,

and a premier graduate institution. As a land-grant university, it is committed to excellence in learning, scholarship, and engagement with society. In all its activities, the university aims to advance the frontiers of human knowledge and enrich and elevate society. The university welcomes and honors people of all races, genders, creeds, cultures, and sexual orientations, and values intellectual curiosity, pursuit of knowledge, and academic freedom and integrity. The university intends that its graduates will promote the values and institutions of representative democracy, and be prepared to lead lives of personal integrity and civic responsibility.

Candidates should apply to: Dr. Edward E. Schilling, Department of Ecology and Evolutionary Biology, 569 Dabney Hall, University of Tennessee, Knoxville, TN 37996.

Applicants should send a curriculum vitae, statements of research and teaching goals, and arrange for three reference letters to be submitted. Applications will be reviewed beginning October 20, 2006 and continue until position is filled.

The University of Tennessee, Knoxville, is the state's flagship research institution, a campus of choice for outstanding undergraduates, and a premier graduate institution. As a land-grant university, it is committed to excellence in learning, scholarship, and engagement with society. In all its activities, the university aims to advance the frontiers of human knowledge and enrich and elevate society. The university welcomes and honors people of all races, creeds, cultures, and sexual orientations, and values intellectual curiosity, pursuit of knowledge, and academic freedom and integrity. The university intends that its graduates will promote the values and institutions of representative democracy, and be prepared to lead lives of personal integrity and civic responsibility.

The University of Tennessee does not discriminate on the basis of race, sex, color, religion, national origin, age, disability or veteran status in provision of educational programs and services or employment opportunities and benefits. This policy extends to both employment by and admission to the University.

The University does not discriminate on the basis of race, sex or disability in its education programs and activities pursuant to the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act (ADA) of 1990.

Inquiries and charges of violation concerning Title VI, Title IX, Section 504, ADA or the Age discrimination in Employment Act (ADEA) or any of the other above referenced policies should be directed to the Office of Equity and Diversity (OED), 1840 Melrose Avenue, Knoxville, TN 37996-3560, telephone (865)974-2498 (V/TTY available) or 974-2440. Requests for accommodation of a disability should be directed to the ADA Coordinator at the UTK Office of Human resources, 600 Henley Street, Knoxville, TN 37996-4125.

Position: Evolutionary Biologist

Institution: University of Texas at Arlington

Location: Texas

Description:

The Department of Biology invites applications for two tenure-track positions at the rank of Assistant Professor to complement existing research strengths in

ecology, evolution, and genomics. Participation in the Quantitative Biology doctoral program is expected.

- An evolutionary biologist/ecologist: Research interests may include but are not limited to population/community ecology, ecological genomics or population/quantitative genetics. Dr. Laura Gough, Chair of Evolutionary Biology/Ecology Search

- A microbiologist: Research interests may include but are not limited to microbial ecology, virology, genomics, or systematics and evolution. Participation in the undergraduate Microbiology Degree program is expected. Dr. Thomas Chrzanowski, Chair of Microbiology Search.

Applicants must have a Ph.D. and a demonstrated record of research productivity. Successful candidates will be expected to establish vigorous, extramurally funded research labs and participate in both graduate and undergraduate programs. Located in the Dallas/Fort Worth metropolitan area, UT Arlington is a fast-growing, comprehensive university in The University of Texas System. Additional information is available at <http://www.uta.edu/biology/>. Applicants should submit curriculum vitae; copies of up to five publications; statements of research and teaching interests; and the names, e-mail addresses, and telephone numbers of four persons who can provide letters of reference. Send applications to the appropriate Search Chair at Department of Biology, University of Texas at Arlington, Box 19498, Arlington, TX 76019-0498. Review of completed applications will begin 9 October 2006, and will continue until the positions are filled.

Hiring will be contingent on the completion of a satisfactory criminal background investigation for security sensitive positions. UT Arlington is an Equal Opportunity/Affirmative Action Employer.

Search Chair, Department of Biology, The University of Texas at Arlington, Box 19498, Arlington, TX 76019-0498, USA.

Position: Department Chair, Biology

Institution: Auburn University

Location: Alabama

Description:

The Department of Biological Sciences at Auburn University invites applications and nominations for the position of Chair. Biological Sciences is an integrative department, with expertise in a diverse array of biological disciplines, with 40 faculty, 100 graduate students (M.S. and Ph.D.) and 550 undergraduate majors. More information about the department is available at <http://www.auburn.edu/biology>. Applicants must have a Ph.D. in Biological Sciences or closely related life sciences discipline, and a record of academic excellence consistent with appointment as Full Professor. The Chair is expected to possess strong interpersonal skills and function as an administrative scholar, providing visionary, dynamic leadership to carry the department forward in research, teaching, and outreach. The selected candidate must be eligible for employment in the U.S. at the date of appointment and be able to communicate effectively in English. Applicants should submit a detailed curriculum vitae, transcripts, representative reprints, a statement of administrative philosophy, personal teaching and research goals and the names and contact information of at least three references. Women and minorities are encouraged to apply. Applications should be sent to Dr. Charles Savrda, Biological Sciences Search

Committee Chair, Department of Biological Sciences, 101 Life Sciences Building, Auburn University, Alabama 36849-5407 or electronically as PDFs to bioscichairsearch@auburn.edu. Auburn University is an AA/EQ employer. Review of applications will begin November 1, 2006.

Position: Marine Biologist

Institution: University of South Alabama

Location: Alabama

Description:

The Department of Marine Sciences at the University of South Alabama (USA) invites applications for a full-time, 9-month, tenure-track faculty position. Applicants with research interests that complement existing expertise in the Department (<http://www.southalabama.edu/marinesciences/>) and at the Dauphin Island Sea Lab (<http://www.disl.org/>) are particularly sought. USA is a member of the Alabama Marine Environmental Sciences Consortium at the Dauphin Island Sea Lab.

The successful candidate will be expected to maintain an active, extramurally-funded research program, advise graduate students and teach graduate courses in areas relevant to his/ her expertise. Applicants must hold an earned Ph.D. and be fluent in written and spoken English. Applicants should send a letter of application, CV, concise (maximum three pages) statement of research and teaching interests, and the names and contact information for at least three references to: Search Committee Chair, Department of Marine Sciences, LSCB 25, University of South Alabama, Mobile, Alabama 36688. Inquiries may be sent to Dr. Kyeong Park (kpark@disl.org). Review of applications will begin December 1, 2006 and continue until the position is filled. The preferred starting date is August 15, 2007.

Position: Multiple Positions in Biology

Institution: University of West Alabama

Location: Alabama

Description:

The University of West Alabama invites applications for the following positions. Positions are effective August 15, 2007, unless otherwise specified, and all positions are tenure-track unless otherwise noted. See full position announcements and application procedures at <http://employment.uwa.edu/jobs>. Dean of the College of Natural Sciences and Mathematics: Ph.D. in a natural science or mathematics discipline in which the College offers programs.

Biology: Ph.D. (ABD considered) in Biology or related area with background in genetics/cell biology/microbiology.

Lab Technician/Chemistry Instructor: M.S. in chemistry or related field. (non-tenure-track position).

Review of applications begins November 1, 2006, and continues until position is filled. AA/EQ Employer. Minority applications are encouraged.

Position: Microbiologist

Institution: Georgia Southern University

Location: Georgia

Description:

The Biology Department at Georgia Southern University seeks a candidate for a non-tenure track, renewable position to teach Microbiology lecture and associated laboratories for allied health and nursing majors and to supervise microbiology laboratory preparation. The required qualifications for this position include a Ph.D. in the biological sciences and a demonstrated commitment to excellence in the teaching of microbiology. The starting date is August 1, 2007. The position will remain open until filled, however, applicants are encouraged to submit materials before October 31, 2006. Information about the department and faculty, full description of preferred and required qualifications, and application instructions can be located at <http://www.bio.georgiasouthern.edu/jobs/>. For more information about the University, see <http://www.georgiasouthern.edu>.

Position: Human Anatomy and Physiology

Institution: University of Southern

Location: Mississippi

Description:

SCIENCES. The University of Southern Mississippi Department of Biological Sciences invites applications for a full-time, non-tenure track teaching position beginning fall semester 2007. We seek an energetic educator to teach human anatomy and physiology and other courses in the undergraduate program consistent with his area of expertise. The successful candidate must have teaching experience or demonstrated potential. A master's degree in biological sciences or closely related field is required. The University of Southern Mississippi, a Carnegie Research High Activity institution with over 14,000 students, is located in Hattiesburg, Mississippi, near the Gulf Coast and abundant opportunities for outdoor recreation. Hattiesburg is the medical, commercial and cultural center of south Mississippi and is ranked in the top five small metropolitan areas in the United States. The department of biological sciences is comprised of over thirty faculty and offers Bachelor's degrees in biological sciences and marine biology. Over 70 graduate students currently pursue Master's and doctoral degrees. Further information about the department of biological sciences may be found at <http://www.usm.edu/biology>. Applicants should submit a letter of application, curriculum vitae, statement of teaching interests, and three letters of reference to Dr. Frank Moore, Chair, Dept. of Biological Sciences, The University of Southern Mississippi, 118 College Drive, # 5018, Hattiesburg, MS 39406-0001. Review of applications will begin immediately and continue until the position is filled. The University of Southern Mississippi is an affirmative action, equal opportunity employer, Americans with disabilities institution.

Position: Developmental Biology

Institution: Auburn University, Montgomery

Location: Alabama

Description:

Auburn University Assistant Professor (Position number 2-39370)
Developmental Biology/Biology.

The Department of Biology at Auburn University Montgomery invites applications for a full-time tenure-track position at the Assistant Professor level to begin in August 2007. The position is for a nine-month appointment with the possibility of summer employment. Candidates must have an earned Ph.D. in

Developmental Biology or a related field. Foreign nationals should be authorized to work in the USA. The faculty member will teach Anatomy and Physiology and other Biology courses on a regular basis and Developmental Biology and other senior level courses on alternate years, advise students, perform departmental and university responsibilities, and engage in research. The Department promotes excellence in teaching and provides opportunities for research in biology.

Research published in refereed journals will be required in order to obtain tenure and promotion. Please submit a letter of application, a current vita that includes the names, addresses, and telephone numbers of at least three professional references, a statement of teaching philosophy and a brief research outline to: Dr. Nathan O. Okia, Department of Biology, Auburn University Montgomery, P.O. Box 244023, Montgomery, AL 36124-4023; or via the Web at nokia@mail.aum.edu. Review of applications will start immediately and continue until the position is filled. An official transcript will be required from individuals selected to interview for the position. Auburn University Montgomery is an affirmative action, equal opportunity employer.

Position: Genetics; Microbiology; Environmental Science

Institution: Louisiana Tech

Location: Louisiana

Description:

Louisiana Tech University is seeking 9-month, tenure track faculty in the following areas: *Genetics *Microbiology *Environmental Science *Developmental Biology *Cell/Molecular Biology. The School of Biological Sciences is seeking to fill five 9-month, tenure track positions at the assistant or associate level, with faculty members who desire a balanced commitment to teaching and research. New faculty will develop an active, externally-funded research program involving undergraduates and M.S. students while teaching general undergraduate courses and graduate courses in their specialty.

Requirements include: Ph.D. in appropriate field and ability to communicate effectively in English. Teaching and postdoctoral experience preferred. To apply electronically, send: application letter, indicating position of interest, curriculum vitae, separate statements of research interests and teaching philosophy, names/e-mail addresses of three references to: Dr. William Campbell: campbell@latech.edu. Review of applications will begin 11/27/06 and continue until positions are filled. Louisiana Tech University, located in northern Louisiana midway between Shreveport and Monroe, maintains an enrollment of 10,000 students. The School has 23 faculty members, enrolls 550 undergraduates and 35 graduate students. School of Biological Sciences faculty are encouraged to establish cooperative activities with faculty in Biomedical Engineering and the Institute for Micromanufacturing. Cooperating faculty will have access to the facilities of the new Biomedical Engineering building and the Institute. Louisiana Tech University is a member of the University of Louisiana System and is an EEO/AA employer.

Position: Biology

Institution: Bainbridge College

Location: Georgia

Description:

Founded in 1973, Bainbridge College is a two-year college within the University System of Georgia offering both technical and transfer programs to over 2,700 students. Students enjoy small classes in a supportive atmosphere. In the past five years, the college has been one of the fastest growing institutions in Georgia. With over 270 acres of stately pines and moss-draped oak trees, the campus is also known for its beauty. Located in southwest Georgia, the city of Bainbridge is thirty-five miles north of Tallahassee, Florida. The college's main campus is located on U.S. Highway 84 East. In 2006, the college opened a second instructional site in Blakely in nearby Early County. The Early County site is located on U.S. Highway 27 Bypass in Blakely, GA.

POSITION: Instructor/Assistant Professor of Biology (2 Positions).

POSITION DESCRIPTION: Each position is a full-time, ten-month, tenure track faculty position in the Arts and Sciences Division. Desirable candidates will be qualified to teach Principles of Biology I and II, Environmental Science, and one or more of the following courses: Human Anatomy and Physiology I and II, General Microbiology, and General Botany. The faculty member will also be expected to advise students, perform, institutional and community service, and continue to grow professionally in the field. Teaching assignments may include day, evening, Saturday, and off-campus experiences. The teaching load is 14-16 semester hours with laboratories per semester.

The successful candidate will possess the education and experience to be an effective instructor and a productive faculty member. Instructors are expected to foster an environment of professionalism, to seek the continuous improvement of the curriculum, and to develop professionally in the field. The successful candidate will also be a strong advocate for education within the college and community at large.

QUALIFICATIONS: Master's degree with 18 graduate semester hours in biology. College teaching experience. Experience with instructional technology.

DESIRED QUALIFICATIONS: Ph.D. in biology. Teaching experience in a community college. Record of scholarly publications or presentations.

INTERVIEW PROCESS: Candidates must demonstrate an ability to teach using the latest in instructional technology. Finalist selected for campus interviews will deliver a thirty-minute teaching demonstration to the search committee, faculty members, and students (if available). Specific instructions will guide the demonstrations.

SALARY Commensurate with credentials and experience.

POSITION AVAILABLE August 2007.

APPLICATIONS Applicants should submit a letter addressing qualifications as related to the job, current vita with three professional references; unofficial transcripts ; an employment application (see application link on employment website) To: Human Resources Bainbridge College 2500 E. Shotwell Street P. O. Box 990 Bainbridge, GA 39818 FAX - 229-248-2594 <http://jobs.bainbridge.edu>; Bainbridge College is an EEO/AA Employer; minorities, women, persons with disabilities, and veterans are encouraged to apply.

Position: Assistant Professor of Biology

Institution: Henderson State University

Location: Arkansas

Description:

Henderson State University, Arkadelphia, Arkansas seeks an Assistant Professor of Biology; tenure-track, nine-month appointment with additional summer teaching possible. Ph.D. preferred, ABD considered. Teaching responsibilities will include general microbiology and introduction to biology. Ability to offer courses in other areas, particularly immunology and/or parasitology, would be beneficial.

Scholarly activities and a research program involving undergraduate students are expected. For more information and application procedures, please visit <http://www.hsu.edu>

Position: Multiple Tenure-track Faculty Positions

Institution: The University of Montevallo

Location: Alabama

Description:

The University of Montevallo, a member of the Council of Public Liberal Arts Colleges (COPLAC), invites nominations and applications for positions available in August 2007. With an enrollment of approximately 3,000, UM is Alabama's public liberal arts university, offering baccalaureate and master's degree programs with an emphasis on high quality education and innovative teaching. Adjacent to Birmingham, in one of the nation's fastest growing counties, Montevallo provides attractive living in a moderate climate with ready access to metropolitan and recreational resources. All positions are tenure track, at the Assistant Professor rank (unless otherwise stated), and include academic advising, research/scholarly activity, and professional service; doctorates preferred. College of Arts and Sciences, Biology - Teach anatomy, physiology, developmental biology, and introductory courses. Scholarly activity involving undergraduates expected. Postdoctoral and teaching experience preferred. Apply to: Dr. Scott Peterson, Chair, Department of Biology, Chemistry, and Mathematics, Station 6480, Birmingham, AL.

Position: Biology -Physiology and Field

Institution: Spelman College

Location: Georgia

Description:

Spelman College seeks scholar-teachers dedicated to excellence in teaching and the development of a scholarly environment for students and colleagues. The Biology Department: Assistant/Associate Professor in Physiology, and Assistant Professor in Field Biology. Physiology - Assistant/Associate Professor. The ideal candidate will be able to teach an advanced course in mammalian/human physiology and contribute to an introductory Organismal Form and Function course. The candidate will also be able to establish an active research program that will involve undergraduates in mentored research. Field Biology - Assistant Professor. Candidates will be considered in the broad areas of Evolutionary Biology or Ecology who can provide Spelman students with field experiences, both through formal course work and mentored research. The candidate will contribute to an introductory population/evolution course and develop advanced elective courses. The candidate will also be able to establish an active research program that will involve undergraduates in mentored research. Qualifications: Applicants must have a PhD or equivalent in the biological sciences, post-doctoral research experience, and strong interest in

undergraduate teaching, mentoring, and research. Spelman Biology faculty maintain independently funded research programs and engage in active research with students. Competitive start-up packages are available for new faculty. With one of the largest majors at Spelman, the Biology Department is nationally recognized for its role in training women of color for graduate and professional studies in the sciences. The successful candidate will assist in developing and teaching introductory and advanced elective courses in their area of specialization, participate in student advising, and establish a productive research program. The Biology Department is housed in the Albro-Falconer-Manley Science Center, a state-of-the-art 150,000 ft research and training facility, fully equipped to support contemporary life sciences research. For more information, go to: <http://www.spelman.edu/academics/programs/biology/index.shtml>.

Position: Plant Field Biology

Institution: University of Central Arkansas

Location: Arkansas

Description:

Tenure-track faculty position, Plant Field Biology. The Department of Biology at the University of Central Arkansas (UCA) invites applications for a tenure-track faculty position in Plant Field Biology. This appointment will be at the Assistant Professor level and will begin August 15, 2007. Applications are sought from outstanding individuals who value quality teaching and are dedicated to developing active research programs involving both undergraduate and graduate students. The individual hired will teach upper-division plant courses and contribute to our lower division major's or non-major's curriculum. Preference will be given to candidates working at the community or systems level. The successful candidate will have opportunities to develop and teach other upper-division and graduate courses and to be involved in our interdisciplinary Environmental Science Program. For additional information, please visit <http://www.uca.edu/biology>. Candidates should submit curriculum vitae, statement of teaching philosophy, an outline of research plans indicating where students may participate, and the names and contact information for three references to: Dr. Steven Runge, Department of Biology, 180 Lewis Science Center, University of Central Arkansas, Conway, Arkansas 72035-5003. Ph.D. required; recent Ph.D.'s are encouraged to apply. Review of applications will begin on November 27, 2006 and continue until the position is filled. UCA is an Equal Opportunity, Affirmative Action Employer.

Position: Assistant Professor of Biology

Institution: Huntingdon College

Location: Alabama

Description:

Huntingdon College is seeking candidates for the tenure track position of Assistant Professor of Biology. A Ph.D. in Biology is preferred, but we will consider applicants with other relevant degrees. The faculty member will be responsible for teaching two-semester Anatomy and Physiology, upper-level courses in area of expertise, and Principles of Biology. Interested candidates should submit a letter of application, a detailed curriculum vitae, a brief statement of teaching philosophy, three letters of reference, and official graduate transcripts

to; Dr. Anthony Carlisle, Associate Dean of Faculty for Arts and Sciences, Huntingdon College, 1500 East Fairview Avenue, Montgomery, AL 36106-2148.

The review of applications will begin on November 1, 2006 and will continue until the position is filled. For more information about Huntingdon College, see <http://www.huntingdon.edu>. Huntingdon College is an Equal Opportunity, Affirmative Action employer.

Position: Assistant Professor

Institution: University of Tennessee at Martin

Location: Tennessee

Description:

Department of Biological Sciences - Two Positions University of Tennessee at MartinHuman.

Anatomy and Physiology: Assistant Professor tenure track position. Ph.D. in Physiology or related field by August 1, 2007 with training in human anatomy and physiology. Preference may be given to applicants with teaching experience and an expertise in animal physiology or developmental biology. The successful applicant will teach courses in human anatomy and physiology and the freshman biology sequences. Other courses may be taught depending on expertise and departmental needs. Additional responsibilities include service and other scholarly activities normally associated with the Department and the University. Send letter of application, current vitae, statement of teaching philosophy, copy of transcript for the terminal degree, and names and contact information of at least three professional references who can address the applicant's ability as an instructor. Electronic applications will not be accepted. Before final consideration, the applicant's file must be complete. Applications should be sent to: Dr. Ann Gathers, Committee Chair, Department of Biological Sciences, 249 Brehm Hall, The University of Tennessee at Martin, Martin, TN 38238. The Search Committee will begin evaluating applications November 15 and will continue until a suitable candidate is identified.

Microbiology: Assistant Professor tenure track position. Ph.D. in Microbiology or a related discipline by August 1, 2007. Preference shall be given to applicants with expertise in microbial ecology or environmental microbiology. Postdoctoral and/or teaching experience is also preferred. Teaching responsibilities include laboratory-based courses in general microbiology and the introductory biology sequences and may include an upper-division course in the applicant's area of expertise. Development of projects and activities at the Reelfoot Lake Research and Teaching Center is encouraged. Additional responsibilities include service to the department and the university, and other scholarly activities normally associated with the department. Send letter of application, current vitae, statement of teaching philosophy, copy of transcript for the terminal degree, and three reference letters. Electronic applications will not be accepted. Before final consideration, the applicant's file must be complete. Applications should be sent to: Dr. Linda Husmann and Dr. Jean Lu, Committee Co-Chairs, Department of Biological Sciences, 249 Brehm Hall, The University of Tennessee at Martin, Martin, TN 38238. The Search Committee will begin evaluating applications November 15 and will continue until a suitable candidate is identified. For details, visit our Web site at <http://www.utm.edu/departments/artsci/biology/index.htm> and click on "Position Announcements." The University of Tennessee at Martin is a primary campus in the University of Tennessee System. The campus is located

in Northwest Tennessee approximately 125 miles north of Memphis and 150 miles west of Nashville. The University of Tennessee at Martin has a combined graduate and undergraduate enrollment of approximately 6,900 students. The emphasis is solidly on excellence in undergraduate instruction. We seek candidates who demonstrate a similar commitment. UT Martin is an EEO/AAC/Title VI/Title IX/Section 504/ADA/ADEA employer. The University seeks to diversify its work force. Therefore, all qualified applicants, regardless of race, color, national origin, religion, gender, age, disability or Vietnam veteran status, are strongly encouraged to apply.

Position: Developmental Biologist

Institution: University of Virginia's College at Wise

Location: Virginia

Description:

Development Biologist. The University of Virginia's College at Wise is accepting applications for a tenure-track position in Developmental Biology starting Fall 2007. The successful candidate will contribute to a growing biology program and a newly renovated biology curriculum by developing and teaching courses in the fields of developmental biology and molecular genetics, and involving undergraduates in a modern research program. Candidates must possess a Ph.D. in developmental biology or closely related discipline. Post-doctoral research and undergraduate teaching experiences are preferred. UVa-Wise is a nationally ranked four year public liberal arts college that serves undergraduates through excellence and innovation in teaching and research. The College is committed to building a culturally diverse academic community in the mountains of southwestern Virginia and strongly encourages applications from women and minority candidates. Please visit our Web site at http://www.uvawise.edu/natural_sciences/ for more information about our program and students. Qualified candidates should send a letter of interest, a curriculum vitae, separate statements describing potential courses and research plans for undergraduate involvement, copies of graduate transcripts, and contact information for three professional references to: Biology Search Committee, Office of Human Resources, University of Virginia's College at Wise, 1 College Avenue, Wise, Virginia 24293.

Review of applications will begin November 24 and continue until the position is filled. The University of Virginia's College at Wise is an Equal Opportunity, Affirmative Action Employer committed to excellence through diversity.

Position: Anatomy and Physiology

Institution: Huntingdon College

Location: Alabama

Description:

Huntingdon College is seeking candidates for the tenure track position of Assistant Professor of Biology. A Ph.D. in Biology is preferred, but we will consider applicants with other relevant degrees. The faculty member will be responsible for teaching two-semester Anatomy and Physiology, upper-level courses in area of expertise, and Principles of Biology. Interested candidates should submit a letter of application, a detailed curriculum vitae, a brief statement of teaching philosophy, three letters of reference, and official graduate transcripts

to: Dr. Anthony Carlisle, Associate Dean of Faculty for Arts and Sciences, Huntingdon College, 1500 East Fairview Avenue, Montgomery, AL 36106-2148.

The review of applications will begin on November 1, 2006 and will continue until the position is filled. For more information about Huntingdon College, see <http://www.huntingdon.edu>. Huntingdon College is an Equal Opportunity/Affirmative Action employer.

Position: Genetics

Institution: Huntingdon College

Location: Alabama

Description:

Huntingdon College is seeking candidates for the tenure track position of Assistant Professor of Biology. A Ph.D. in Biology is preferred, but we will consider applicants with other relevant degrees. The faculty member will be responsible for teaching Genetics, upper-level courses in area of expertise, and Principles of Biology.

Interested candidates should submit a letter of application, a detailed curriculum vitae, a brief statement of teaching philosophy, three letters of reference, and official graduate transcripts to: Dr. Anthony Carlisle, Associate Dean of Faculty for Arts and Sciences, Huntingdon College
1500 East Fairview Avenue, Montgomery, AL 36106-2148.

The review of applications will begin on November 1, 2006 and will continue until the position is filled. For more information about Huntingdon College, see <http://www.huntingdon.edu>. Huntingdon College is an Equal Opportunity/Affirmative Action employer.

Position: Assistant Professor

Institution: Xavier University of Louisiana

Location: Louisiana

Description:

The Biology Department of Xavier University of Louisiana, a Catholic, historically Black university, has THREE TENURE-TRACK openings for the Fall 2007 semester. Ph.D. and postdoc required. Only candidates with expertise in animal physiology, histology, developmental biology and/or bioinformatics will be considered. Responsibilities will include teaching in one or more of the above areas, scholarly productivity and service. The department has established research facilities and opportunities to involve students in research. Send curriculum vitae, descriptions of teaching philosophy and research interests, and the names of three references to: mccarmic@xula.edu (Dr. M. C. Carmichael, Department of Biology, Xavier University, New Orleans, Louisiana 70125). Review of applications will begin immediately and will continue until the positions are filled. EOE.

Position: lecturer

Institution: University of North Carolina at Charlotte

Location: North Carolina

Description:

University of North Carolina Charlotte BIOLOGY (2 positions).

FULL-TIME LECTURER. The University of North Carolina at Charlotte is seeking applicants for a 12-month, permanent, non-tenure track lecturer position

in Biology. Required qualifications: Masters Degree in Biology and teaching experience at the college or university level. Desired qualifications: Ph.D. degree in Biology. The lecturer will teach a 2-semester introductory course for biology majors stressing evolution as a unifying theme. The lecturer will also be responsible for training and supervision of laboratory teaching assistants. Teaching experience in freshman biology at a 4-year institution is highly desirable. Applicants are expected to develop and implement innovative teaching strategies, including use of technology for both lectures and labs. See <http://www.bioweb.uncc.edu/resources/positions.htm>, for additional information.

Please send C.V., three letters of reference, and a statement of teaching philosophy to Freshman Lecturer Search Committee, Dept. of Biology, UNC Charlotte, 9201 University City Blvd., Charlotte, NC 28223. Review of applications will begin December 6th, 2006 and continue until the position is filled.

FULL-TIME LECTURER. The University of North Carolina at Charlotte is seeking applicants for a 12-month, permanent, non-tenure track lecturer position in Biology. Required qualifications: Masters Degree in Biology and teaching experience at the college or university level. Desired qualifications: Ph.D. degree in Biology. The lecturer will direct a new program for an Interdisciplinary Minor in Biotechnology, teach courses in the biotechnology area, act as a regional liaison for the biotechnology program, and advise biology majors. Please send C.V., three letters of reference, and a statement (3-page maximum) of your teaching experience and ability to contribute to the biotechnology program to Biotechnology Lecturer Search Committee, Dept. of Biology, UNC Charlotte, 9201 University City Blvd., Charlotte, NC 28223. Review of applications will begin December 6th, 2006 and continue until the position is filled. The lecturer position will begin at the start of the fiscal year, July, 2007. UNC Charlotte strives to create an academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status. AA/EOE.

Position: Invertebrate Biology

Institution: George Mason University

Location: Virginia

Description:

The Department of Environmental Science and Policy (ESP) of George Mason University invites applications for a full-time, tenure-track Assistant Professor position in invertebrate biology for August 2007. We seek an individual with a professional focus that complements current ESP faculty working in conservation biology and aquatic ecology. Experience with field-based or conservation genetic research is a plus. The successful candidate will be expected to pursue a vigorous externally-funded research program, aspire to teaching excellence, collaborate with current faculty, and participate in our interdisciplinary graduate programs. Teaching duties will include undergraduate courses in animal biology, invertebrate biology and a graduate course in the applicant's area of expertise. A Ph.D. is required. George Mason University is a large, public university in Northern Virginia. ESP collaborates in BS and BA degrees in Biology, and offers MS and Ph.D. degrees in Environmental Science and Policy. Our faculty includes ecologists, biologists, geologists,

oceanographers and policy specialists. We have a strong history of research in both aquatic ecology and conservation biology and are planning a new satellite campus and field center at Belmont Bay on the tidal Potomac River adjacent to the Occoquan Bay National Wildlife Refuge (30 minutes from Fairfax) with diverse habitats ranging from open water and wetlands to upland meadows. For additional information see <http://mason.gmu.edu/~espp> (department) and <http://www.gmu.edu>. Candidates should complete the online application for position F5252z at <http://jobs.gmu.edu> and submit CV, letter of intent including statements of research and teaching interests, examples of published work, teaching evaluations (if available), and contact information (with e-mail addresses) of three references to: Dr. Andrea Weeks, I Search Committee Chair, Dept. of Environmental Sciences and Policy, Mail Stop 5F2, George Mason University, Fairfax, VA 22030-4444. Review of applications will begin on 11 December 2006. George Mason University is an Affirmative Action, Equal Opportunity Employer. We strongly encourage women and minority candidates to apply.

Position: Assistant Professor of Biology

Institution: Francis Marion University

Location: South Carolina

Description:

Francis Marion University Florence, South Carolina. For complete job description, visit: www.fmarion.edu/about/hr. Two Available Positions in Biology.

Assistant Professor of Biology - Position No. 07-28.

(Tenure-track). Ph.D. required. Teaching responsibilities include upper-level Human Anatomy and Physiology courses as well as introductory biology courses for majors and non-majors. Ability to teach Microbiology would be helpful. Academic advising, committee work, and involvement in scholarship and professional activities will be expected.

Assistant Professor of Biology - Position No. 07-27.

Non Tenure-Track. (One-year appointment, renewable for up to three years). Teaching responsibilities include courses in introductory biology for biology majors as well as Environmental Biology and Human Biology for non-majors. Other responsibilities include advising students, service to the community, and scholarly activity. Minimum qualifications: Ph.D. in the biological sciences strongly preferred; A.B.D's will be considered. An Affirmative Action, Equal Opportunity Institution.

Position: Assistant Professors

Institution: Mississippi State University

Location: Mississippi

Description:

The Department of Biological Sciences at Mississippi State University (www.msstate.edu/dept/biosciences) invites applications for Assistant Professor tenure-track positions that begin August 16, 2007. These faculty members will contribute to one of three focus areas: Cell Biology/Genetics, Ecology/Evolution or Microbiology/Immunology. The scientific infrastructure at Mississippi State University includes focus areas in proteomics, genomics and digital biology, along with these supporting facilities: the Life Sciences & Biotechnology Institute (www.mafes.msstate.edu/biotech), the Electron Microscope Center

(www.msstate.edu/dept/emc) and the GeoResources Institute (www.gri.msstate.edu). Successful candidates will develop externally funded research programs in any of the above-mentioned areas, direct graduate students and contribute to the teaching mission of the department. Minimum requirements include a Ph.D. in a related biological sciences field, but all-but-dissertation candidates will be considered. To apply, send CV, reprints of three representative publications, a concise statement of current and future research interests (1 page), and identify the position/area you are applying for plus relevant areas of teaching competence. Applicants should also arrange for at least three letters of reference to be submitted on their behalf. Screening will begin January 15, 2007 and will continue until the positions are filled. Send applications (hard copy) to Dr. Nancy Reichert, Interim Head, Department of Biological Sciences, P.O. Box GY, Mississippi State University, Mississippi State, MS 39762. (FacultySearch@biology.msstate.edu)

Mississippi State University is An Affirmative Action/Equal Opportunity Employer

Position: Taxonomic Botanist

Institution: Austin Peay State University

Location: Tennessee

Description:

Nominations and applications are invited for a full-time, 9-month, tenure-track position of Assistant Professor-Taxonomic Botanist to begin August 2007. Salary is competitive and commensurate with academic preparation and experience.

Duties and responsibilities include, but are not limited to the following: teach undergraduate and graduate courses from among the areas of i.e. Introductory Biology (majors and nonmajors), Botanical Diversity, Plant Taxonomy, and Field Botany; serve as curator for the APSU Herbarium; and develop an externally funded Masters-level research program involving students.

Required Qualifications: A Ph.D. in botany, botanical ecology, or plant taxonomy is required, and college teaching experience is preferred. Candidate must have a record of scholarly achievement. Experience in the use of innovative, inquiry-based methods of instruction and current molecular research techniques is beneficial. Teaching assignments may involve travel to regional sites and/or distance learning venues. Experience with the taxonomy, ecology and distribution of southeastern flora is required.

Application Procedure: Please submit letter of interest, curriculum vitae, graduate and undergraduate transcripts, statement of research interests and teaching philosophy, and three letters of recommendation to: Office of Human Resources, Austin Peay State University, Attn: HR Faculty Applications, Department of Biology, PO Box 4507, Clarksville, TN 37044. Email: FacultyApplications@apsu.edu, Fax: (931) 221-7105.

For questions pertaining to this position you may contact Dr. Don Dailey, Chair, Department of Biology at daileyd@apsu.edu or phone 931-221-7781

Review of applications will continue until position is filled.

Minorities, women and members of other protected groups are encouraged to apply. Austin Peay State University is an Affirmative Action/Equal Opportunity Employer.

Position: Organismal Biology**Institution:** Belmont University**Location:** Tennessee**Description:**

Belmont University invites applications for a tenure-track position beginning August 2007. Candidates must have earned a Ph.D. in an area of Organismal Biology, with expertise in Population Genetics desired. Candidates should expect to complete Ph.D. requirements by June 1, 2007. Preference will be given to applicants who can demonstrate excellence in teaching and the potential to maintain a strong undergraduate research program. Potential to contribute to the interdisciplinary Environmental Studies program is considered a plus. Normal duties include undergraduate instruction to majors and non-majors, advising, leading students in undergraduate research projects, and department and university responsibilities. As all Belmont undergraduates complete an innovative general education program with significant interdisciplinary components, Belmont University is particularly seeking applicants who can demonstrate the interest and ability to work collaboratively in course design and to teach interdisciplinary and topical courses in this program.

All applicants must complete an online application at www.belmont.edu/hr/. While completing the application, applicants will be prompted to submit a letter of application, curriculum vitae, statement of teaching philosophy, explanation of research interests and samples of scholarly work, and a response to Belmont's mission, vision, and values statements. Three letters of reference and all transcripts must be mailed via postal service to: Dr. Robert Grammer, Chair, Department of Biology, Belmont University, 1900 Belmont Blvd., Nashville, TN 37212-3757. Screening of applications will begin January 15, 2007 and continue until the position is filled.

A comprehensive, coeducational university located in Nashville, TN, Belmont is a student-centered, teaching university focusing on academic excellence. The university is dedicated to providing students from diverse backgrounds an academically challenging education in a Christian community. Belmont is an EOE/AA employer under all applicable civil rights laws. Women and minorities are encouraged to apply.

Application Information: Contact: Dr. Robert Grammer, Department of Biology, Belmont University, Online App. Form: <http://www.belmont.edu/hr/>.

Position: Biology**Institution:** Lenoir-Rhyne College**Location:** North Carolina**Description:**

Assistant Professor of Biology -- Lenoir-Rhyne College -- North Carolina.

POSITION AVAILABLE. Assistant Professor of Biology. School of Natural Sciences. Nine-month tenure track position. **BEGINNING DATE** Fall 2007.

APPLICATION DEADLINE. Review of credentials will begin immediately and continue until the position is filled.

SALARY. Competitive and commensurate with academic qualifications and professional experience. Generous fringe benefits.

RESPONSIBILITIES. The normal teaching load is 21-24 hours in the academic year. The successful candidate will be expected to teach a wide variety of classes and labs in undergraduate biology, advise biology majors, participate

in committee work, and contribute to course and curricular development in the discipline.

QUALIFICATIONS AND EXPERIENCE. Ph.D. in Biology, Zoology or related field required. The most desirable candidate will also have specialization in developmental biology (both classical and molecular), with an interest in vertebrate zoology and Human Anatomy & Physiology as well as teaching experience, and the ability to guide undergraduate research. Lenoir-Rhyne encourages applications from individuals with multicultural backgrounds.

CONTACT. Interested candidates should review the following site <http://www.lrc.edu/facultysearch2007/>. Complete applications must be submitted electronically through the above Web site. Required information includes

- Web-based application form, - Letter of application addressing position fit with the description above, - List of three references with complete contact information, including e-mail and phone, - Curriculum vitae. - List of all undergraduate and graduate courses in biology and related fields along with grades and institution.

Position: Molecular Geneticist

Institution: Thomas More College

Location: Kentucky

Description:

Position: Molecular Geneticist. Salary: Unspecified. Institution: Thomas More College. Location: Kentucky. Date posted: 1/17/2007

Thomas More College, located in Crestview Hills, KY in the Greater Cincinnati Area is a small, private Liberal Arts Catholic College with an enrollment of 1400+ students. The Department of Biology invites applicants to apply for a full-time one year visiting assistant professorship, with potential conversion to a tenure track position beginning August, 2007. Ph.D required. Candidate's area of expertise should be in Molecular Genetics (or related area). Primary duties will involve teaching upper division undergraduate lecture/lab courses in Molecular Genetics and Introductory Genetics. In addition to teaching, the successful candidate will be expected to provide academic advising for biology majors, serve on college committees and develop research opportunities for undergraduate students. Successful candidates must provide evidence of quality teaching experience. For information about Thomas More College see our web site at: www.thomasmore.edu. Send curriculum vitae, unofficial graduate and undergraduate transcripts, statement of teaching philosophy and research interest, and three letters of recommendation to Dr. Kathleen Barone, Search Committee Chair, Department of Biology, Thomas More College, 333 Thomas More Parkway, Crestview Hills, KY 41017.

ALL TAXA BIODIVERSITY INVENTORY (ATBI)**GATLINBURG, TENNESSEE**

ATBI is an organization devoted to surveying all life in the Great Smoky Mountains National Park.

More information about the ATBI and Discovery Life in America (DLIA) may be obtained from the Administrative Officer, Jeanie Hilten, by e-mail jeanie@dlia.org. The website is <http://www.discoverlifeinamerica.org> or at <http://www.dlia.org>. The mailing address is Discover Life in America, 1314 Cherokee Orchard Road, Gatlinburg, TN 37738. The telephone number is (865) 430-4752.⁶³

SOUTHERN APPALACHIAN FOREST COALITION (SAFC)**ASHEVILLE, NORTH CAROLINA**

As stated in their newsletter *Across Our Mountains*, SAFC is an organization dedicated to "working together to protect and restore southern Appalachian forests."

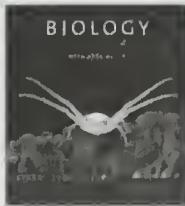
More information about SAFC may be obtained from their web site at <http://www.safc.org>, and by e-mail at safc@safc.org. The mailing address is Southern Appalachian Forest Coalition, 46 Haywood Street, Suite 323, Asheville, North Carolina 28801-2838. The telephone number is (828) 252-9223.⁶³



Proud to be a patron member of the ASB!

For more information, or to request review copies, please visit us at www.thomsonedu.com/biology.

Available Now from Thomson Brooks/Cole!



Cecie Starr/Chris Evers/
Lisa Starr
*Biology Today and
Tomorrow with
Physiology*,
Second Edition
Casebound: 0-495-10919-3.

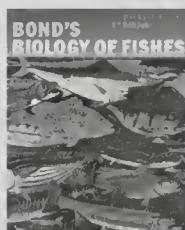
Paperbound: 0-495-01654-3. ©2007.
With clear and engaging writing, trend-setting art, and unparalleled media, this concise text engages students, links concepts from chapter to chapter, helps you easily monitor students' progress, and simplifies lecture prep.



Cecie Starr/
Beverly McMillan
Human Biology,
Seventh Edition
0-495-01596-2. ©2007.
Fine tuned for greater clarity and a more logical flow of ideas, this new edition presents core areas of human biology with a focused presentation that is ideal for non-majors.



Cecie Starr/Ralph Taggart
*Biology: The Unity
and Diversity
of Life*,
Eleventh Edition
0-495-01599-7. ©2006.



Michael Barton
*Bond's Biology of
Fishes*,
Third Edition
0-12-079875-1. ©2007.
This revision of Bond's classic text features a new 4-color insert of over 150 photos.



Lauralee Sherwood
*Human Physiology:
From Cells to Systems*,
Sixth Edition
0-495-01485-0. ©2007.
Overwhelmingly praised for its central theme of homeostasis, Sherwood's text helps students understand how the body's systems work together.

G. Tyler Miller, Jr./Scott Spoolman
*Living in the Environment:
Principles, Connections, and
Solutions*, Fifteenth Edition
0-495-01598-9. ©2007.

Essentials of Ecology, Fourth Edition
0-495-12544-X. ©2007.

Sustaining the Earth: An Integrated Approach, Eighth Edition
0-495-01597-0. ©2007. A Thomson Advantage book.
Miller and new contributor Scott Spoolman have scrutinized every line of these new editions—enhancing, clarifying, and streamlining while also updating with the very latest environmental news and research.

New updated editions available now!

Susan R. Barnum
Biotechnology: An Introduction,
Updated Second Edition
0-495-11205-4. ©2005.

Michael Cummings
*Human Heredity:
Principles and Issues*,
Updated Seventh Edition
0-495-11308-5. ©2006.

OUTERNET PUBLISHING

Biology laboratory solutions from Thomson and Outernet Publishing

Outernet offers ready-to-go, easily customized print and media solutions for introductory biology lab courses that combine robust content and interactive media assets. Visit www.thomsoncustom.com/labs.

See what's hatched

The new 2007 *Carolina™ Science* catalog—

bursting with thousands of
teaching tools and supplies,

all backed by our
world-class support and

The Carolina Pledge:
100% satisfaction guaranteed.

Highlights of this year's
edition include

- Scores of new products
- New Forensic Science section
- Revised design to help you
find the resources
you need

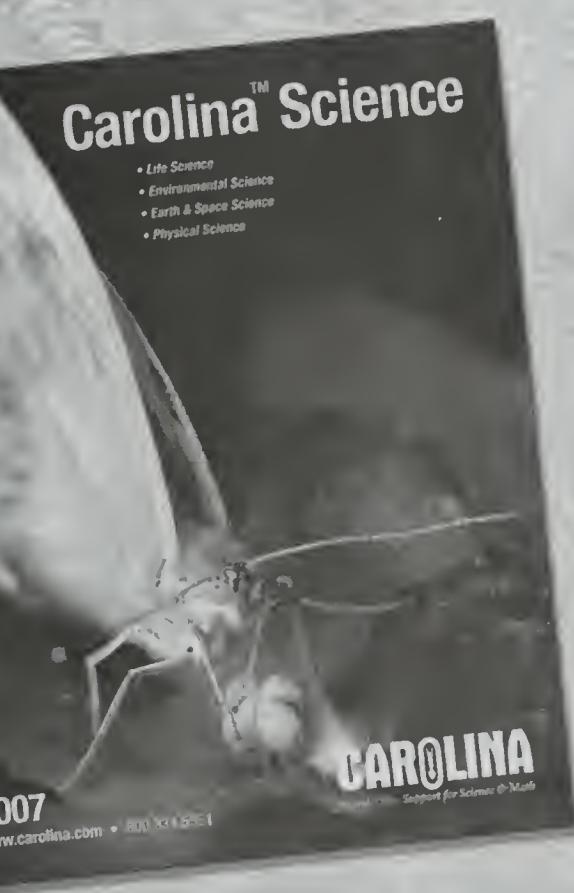
Order your copy today.

It's easy!

Visit us online at

www.carolina.com

or call 866.815.2450.



Carolina Biological Supply Company
2700 York Road • Burlington NC 27215
866.815.2450 • www.carolina.com

CAROLINA
World-Class Support for Science & Math



Dedicated to
Problem Solving and Value-Added Solutions

Web Site: <http://www.bda-inc.com/home.html>

Florida (USA) Office:
BREEDLOVE, DENNIS & ASSOCIATES, INC.
330 W. Canton Ave. Winter Park, Florida 32789
Tel: 407 677-1882 Tel: 800 304-1882 Fax: 407 657-7008

Tennessee (USA) Office:
BREEDLOVE, DENNIS, YOUNG & ASSOCIATES, (TN) INC.
133 Holiday Court Suite 207, Franklin, Tennessee 37067
Tel: 615 599-1996 Fax: 615 599-1998

Martin Microscope Company

Since 1946

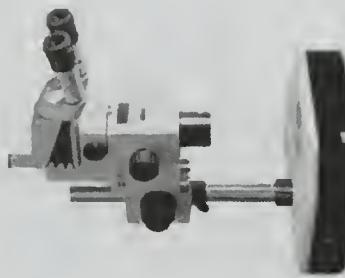
Home

Martin Microscope Company is based in the Southeastern United States, and is a retailer of new and used optical microscopes and accessories.



NEW SONY iCY-SHOT DXC-S500 5MP Digital Camera \$5,750.00..

A privately owned independent company, Martin Microscope sells microscopes and accessories of many brands – providing the best combination of quality and affordability to our customers.



Meiji RZ Research Zoom
Stereomicroscope \$7,000.00 as shown

sales@martinmicroscope.com
E-Mail:

NEW Motic BA450 Laboratory Compound
Microscope with Infinity Plan Achromat Objectives
\$2,475.00

Visit the website of Martin Microscope: <http://www.martinmicroscope.com/index.html>

ASSOCIATED MICROSCOPE



Associated Microscope

P.O. Box 1076

Elon, NC 27244

Tel: (800) 476-3893

Fax: (336) 538-1847

E-mail: info@associatedmicroscope.com

Web Site: www.associatedmicroscope.com

PATRON MEMBER OF ASB



Great
Stereol

Model # Z-301, or Z-45L \$695.00

LEICA ZOOM 2000™

*The Advanced Stereo Zoom Microscope
Of The Future...Today!*

Leica

SALES AND SERVICE OF MICROSCOPES

LEICA

MEIJI

DIGITAL CAMERAS

Quality Microscopes for Colleges and Universities

Call 1-800-476-3893 to Order!

ASB Membership Form

To join ASB or to renew your membership, please complete the information below and enclose check payable to Association of Southeastern Biologists. Mail to Tim Atkinson, Carolina Biological Supply Company, 2700 York Rd, Burlington NC 27215-3398. If you have any questions, please contact Tim Atkinson at 336 538 6224, FAX 336 538 6322, or e-mail tim.atkinson@carolina.com. Thank you for your support.

We encourage all members to consider a higher level of membership support this year.

Name _____

Organization/Educational Institution _____

Address Line 1 _____

Address Line 2 _____

Address Line 3 _____

City _____ State _____ Country _____

Zip Code _____ - _____ Telephone (_____) _____

Cell Phone (_____) _____ Fax (_____) _____

E-mail _____

Regular -- \$35 _____

Regular, 3 years -- \$95 _____

Family -- \$40 _____

Student -- \$15 _____

Emeritus -- \$15 _____

Contributing -- \$70 _____

Sustaining -- \$140 _____

Life -- \$350 _____

Patron -- \$750 _____

Library -- \$40 _____

Library, 3 years -- \$100 _____

ASB ENRICHMENT FUND CONTRIBUTION _____

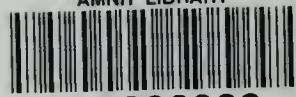
Contributions to ASB, a not-for-profit organization exempt under Internal Revenue Code Section 501(c)(3), are tax deductible. We welcome any inquiries you may have.

If you wish to subscribe to *The Southeastern Naturalist*, please see page 143 for subscription information. *or*



Southeastern biology.
American Museum of Natural
History
Received on: 03-30-07

AMNH LIBRARY



SOUTHEASTERN BIOLOGY
VOLUME 54, NUMBER 2, APRIL, 2007
<http://www.asb.appstate.edu/>

In This Issue

A MESSAGE FROM THE PRESIDENT	65
ASB CANDIDATES FOR OFFICE--2007	66
PROGRAM OF THE 68 TH ANNUAL MEETING.....	72
PORTRAYAL OF THE UNIVERSITY OF SOUTH CAROLINA.....	73
PROGRAM SCHEDULE	74
SCHEDULE OF MEETING ROOMS	77
CONVENTION CENTER FLOOR PLAN	79
PLENARY SPEAKER	80
TRAVEL TO COLUMBIA	81
FIELD TRIPS	87
ASB WORKSHOPS	88
SYMPOSIA	89
COMMERCIAL WORKSHOPS	92
WEDNESDAY NIGHT MIXER	94
THURSDAY NIGHT SOCIAL	94
FRIDAY NIGHT BANQUET	95
ACTIVITIES FOR GUESTS	95
HOTEL INFORMATION	95
DARWIN ON DISPLAY	97
NEWS OF BIOLOGY IN THE SOUTHEAST	97
FORM FOR ADVERTISING IN <i>SE BIOLOGY</i>	98
LOCAL COMMITTEE ASSIGNMENTS	99
AFFILIATE SOCIETIES MEETING WITH ASB	100
SPECIAL REMINDERS FROM THE PRINT EDITOR	102
JOURNAL CHANGES	103
THURSDAY PAPER SESSIONS	104
FRIDAY PAPER SESSIONS	117
THURSDAY AND FRIDAY POSTER SESSIONS	128
AUTHOR INDEX FOR PAPERS AND POSTERS	139
THE SOUTHEASTERN <i>NATURALIST</i> JOURNAL INFORMATION.....	143
AVAILABLE POSITIONS IN THE SOUTHEAST	146
ATBI AND SAFC INFORMATION	167
ASB PATRON MEMBERS	168

PATRON MEMBERS

Associated Microscope, Inc., Elon College and Haw River, NC
 Tim Atkinson, Burlington, NC
Breedlove, Dennis and Associates, Inc., Orlando, FL
Carolina Biological Supply Company, Burlington, NC
 Martin Microscope Company, Easley, SC
 Thomson-Brooks/Cole, Belmont, CA
 Marilyn Pendley, Maiden, NC